BOTANICAL ABSTRACTS

A monthly serial furnishing abstracts and citations of publications in the international field of botany in its broadest sense.

VOLUME X
NOVEMBER, 1921–FEBRUARY, 1922

PUBLISHED MONTHLY UNDER THE DIRECTION OF
THE BOARD OF CONTROL OF BOTANICAL ABSTRACTS, INC.
A democratically constituted organization, with members representing many societies interested in plants

BALTIMORE, U. S. A.
WILLIAMS & WILKINS COMPANY
1922

U. OF I.
LIBRARY

Copyright, 1922
Williams & Wilkins Company
Baltimore, U. S. A.

QK
1
B23
vol 10
n/c

THE SOCIETIES NOW REPRESENTED
AND
THE MEMBERS OF THE BOARD OF CONTROL

(The Members of the Executive Committee for 1921 are indicated by asterisks)

American Association for the Advancement of Science, Section G.
R. A. HARPER, Columbia University, New York City.
B. E. LIVINGSTON, Johns Hopkins University, Baltimore, Maryland.

Botanical Society of America, General Section.
H. A. GLEASON, New York Botanical Garden, New York City.
*B. M. DAVIS, University of Michigan, Ann Arbor, Michigan.

Botanical Society of America, Physiological Section.
OTIS F. CURTIS, Cornell University, Ithaca, New York.
*B. M. DUGGAR (*Chairman of the Board*), Missouri Botanical Garden, St. Louis, Missouri.

Botanical Society of America, Systematic Section.
MARSHALL A. HOWE, New York Botanical Garden, New York City.
J. H. BARNHART, New York Botanical Garden, New York City.

Botanical Society of America, Mycological Section.
C. H. KAUFFMAN, University of Michigan, Ann Arbor, Michigan.
BRUCE FINK, Miami University, Oxford, Ohio.

American Society of Naturalists.
H. H. BARTLETT, University of Michigan, Ann Arbor, Michigan.
*J. A. HARRIS, Department of Genetics, Carnegie Institution, Cold Spring Harbor, L. I., New York.

Ecological Society of America.
H. L. SHANTZ, U. S. Bureau of Plant Industry, Washington, D. C.
*FORREST SHREVE, Desert Laboratory, Carnegie Institution, Tucson, Arizona.

Paleontological Society of America.
ARTHUR HOLLICK, 61 Wall Street, New Brighton, New York.
E. W. BERRY, Johns Hopkins University, Baltimore, Maryland.

American Society of Agronomy.
C. B. HUTCHINSON, Cornell University, Ithaca, New York.
C. A. MOOERS, University of Tennessee, Knoxville, Tennessee.

Society for Horticultural Science.
V. R. GARDNER, University of Missouri, Columbia, Missouri.
E. J. KRAUS, University of Wisconsin, Madison, Wisconsin.

American Phytopathological Society.
L. R. JONES, University of Wisconsin, Madison, Wisconsin.
*DONALD REDDICK, Cornell University, Ithaca, New York.

Society of American Foresters.
RAPHAEL ZON, U. S. Forest Service, Washington, D. C.
J. S. ILLICK, Pennsylvania Department of Forestry, Harrisburg, Pennsylvania.

American Conference of Pharmaceutical Faculties.
HEBER W. YOUNGKEN, Philadelphia College of Pharmacy and Science, Philadelphia, Pennsylvania.
HENRY KRAEMER, Mt. Clemens, Michigan.

Canadian Society of Technical Agriculturists.
W. P. THOMPSON, University of Saskatchewan, Saskatoon, Saskatchewan.
B. T. DICKSON, Macdonald College, Macdonald College, Quebec.

Royal Society of Canada.
F. E. LLOYD, McGill University, Montreal, Quebec.
J. H. FAULL, University of Toronto, Toronto, Ontario.

At large.
W. A ORTON, U. S. Bureau of Plant Industry, Washington, D. C.

46473

BOARD OF EDITORS AND ASSISTANT EDITORS FOR VOLUME X

Editor-in-Chief, J. R. SCHRAMM
National Research Council, Washington, D. C.

EDITORS FOR SECTIONS

Agronomy. C. V. PIPER, U. S. Bureau of Plant Industry, Washington, D. C.—Assistant Editor, MARY R. BURR, U. S. Bureau of Plant Industry, Washington, D. C.

Bibliography, Biography, and History. NEIL E. STEVENS, U. S. Bureau of Plant Industry, Washington, D. C.

Botanical Education. C. STUART GAGER, Brooklyn Botanic Garden, Brooklyn, New York.—Assistant Editor, ALFRED GUNDERSEN, Brooklyn Botanic Garden, Brooklyn, New York.

Cytology. GILBERT M. SMITH, University of Wisconsin, Madison, Wisconsin.—Assistant Editor, GEO. S. BRYAN, University of Wisconsin, Madison, Wisconsin.

Ecology and Plant Geography. H. C. COWLES, The University of Chicago, Chicago, Illinois.—Assistant Editor, GEO. D. FULLER, The University of Chicago, Chicago, Illinois.

Forest Botany and Forestry. RAPHAEL ZON, U. S. Forest Service, Washington, D. C.—Assistant Editor, J. V. HOFMANN, U. S. Forest Service, Wind River Experiment Station, Stabler, Washington.

Genetics. GEORGE H. SHULL, Princeton University, Princeton, New Jersey.—Assistant Editor, J. P. KELLY, Pennsylvania State College, State College, Pennsylvania.

Horticulture. J. H. GOURLEY, Ohio Agricultural Experiment Station, Wooster, Ohio.—Assistant Editor, H. E. KNOWLTON, West Virginia University, Morgantown, West Virginia.

Miscellaneous, Unclassified Publications. BURTON E. LIVINGSTON, The Johns Hopkins University, Baltimore, Maryland.—Assistant Editor, SAM F. TRELEASE, The Johns Hopkins University, Baltimore, Maryland.

Morphology, Anatomy, and Histology of Vascular Plants. E. W. SINNOTT, Connecticut Agricultural College, Storrs, Connecticut.

Morphology and Taxonomy of Algae. E. N. TRANSEAU, Ohio State University, Columbus, Ohio.—Assistant Editor, L. H. TIFFANY, Ohio State University, Columbus, Ohio.

Morphology and Taxonomy of Bryophytes. ALEXANDER W. EVANS, Yale University, New Haven, Connecticut.

Morphology and Taxonomy of Fungi, Lichens, Bacteria, and Myxomycetes. H. M. FITZPATRICK, Cornell University, Ithaca, New York.

Paleobotany and Evolutionary History. EDWARD W. BERRY, The Johns Hopkins University, Baltimore, Maryland.

Pathology. G. H. COONS, Michigan Agricultural College, East Lansing, Michigan.—Assistant Editor, C. W. BENNETT, Michigan Agricultural College, East Lansing, Michigan.

Pharmaceutical Botany and Pharmacognosy. HEBER W. YOUNGKEN, Philadelphia College of Pharmacy and Science, Philadelphia, Pennsylvania.—Assistant Editor, E. N. GATHERCOAL, 701 South Wood Street, Chicago, Illinois.

Physiology. B. M. DUGGAR, Missouri Botanical Garden, St. Louis, Missouri.—Assistant Editor, CARROLL W. DODGE, Harvard University, Cambridge, Massachusetts.

Soil Science. J. J. SKINNER, U. S. Bureau of Plant Industry, Washington, D. C.—Assistant Editor, F. M. SCHERTZ, U. S. Bureau of Plant Industry, Washington, D. C.

Taxonomy of Vascular Plants. J. M. GREENMAN, Missouri Botanical Garden, St. Louis, Missouri.—Assistant Editor, E. B. PAYSON, University of Wyoming, Laramie, Wyoming.

BIBLIOGRAPHY COMMITTEE FOR 1921

J. R. SCHRAMM, *Chairman*, National Research Council, Washington, D. C.

H. O. BUCKMAN
W. H. CHANDLER
A. J. EAMES
R. A. EMERSON
H. M. FITZPATRICK
R. HOSMER
L. KNUDSON
D. REDDICK
L. W. SHARP
K. M. WIEGAND
R. S. HARRIS, *Secretary*

CONTENTS

Societies Represented and the Members of the Board of Control....Page iii
Board of Editors and Assistant Editors for Volume X....Page iv
List of Assigned Serial Publications....Pages vii–xviii
List of Collaborators....Pages xix–xxii
Sections:

- Agronomy....Entries 1–22, 383–411, 859–919, 1447–1526
- Bibliography, Biography, and History....Entries 23–29, 412–429, 920–937, 1527–1591
- Botanical Education....Entries 30–36, 430–443, 938–946, 1592–1603
- Cytology....Page 5, Entries 444–459, 947, Page 242
- Ecology and Plant Geography....Pages 5, 242
 - General, Factors, Measurements....Entries 460–461, 948–969
 - Structure and Behavior....Entries 462–466
 - Vegetation....Entries 467–475, 970–978
 - Floristics....Entries 476–502, 979–997
 - Applied Ecology....Entries 503, 998–1002
- Forest Botany and Forestry....Entries 37–71, 504–509, 1003–1027, 1604–1670
- Genetics....Entries 72–148, 510–550, 1028–1096, 1671–1748
- Horticulture
 - Fruits and General Horticulture....Entries 149–162, 551–570, 1097–1125, 1749–1774
 - Floriculture and Ornamental Horticulture....Entries 163–175, 1126–1177, 1775–1792
 - Vegetable Culture....Entries 176, 571–576, 1183–1187, 1793–1801
 - Horticultural Products....Entries 1178–1182, 1802–1815
- Morphology, Anatomy, and Histology of Vascular Plants
 Entries 177–183, 577–582, 1188–1196, 1816–1835
- Morphology and Taxonomy of Algae....Page 33, Entries 583–600, 1197–1202, Page 279
- Morphology and Taxonomy of Bryophytes....Page 33, Entries 601–615, Page 181, Entries 1836–1846
- Morphology and Taxonomy of Fungi, Lichens, Bacteria, and Myxomycetes
 Pages 33, 281
 - Fungi....Entries 616–625, 1203–1244
 - Lichens....Entries 626–630, 1245–1249
 - Bacteria....Entries 1250–1260
 - Myxomycetes....Entries 631, 1261–1262
- Paleobotany and Evolutionary History....Entries 632–656, 1263–1272, 1847–1851
- Pathology
 - Plant Disease Survey....Entries 184–189, 657, 1273–1280, 1852–1867
 - The Host....Entries 190–198, 658–666, 1285–1289, 1871–1874
 - The Pathogene....Entries 199–206, 667–672, 1281–1284, 1868–1870
 - Descriptive Plant Pathology....Entries 207–227, 673–701, 1290–1302, 1875–1891
 - Eradication and Control Measures....Entries 228–241, 702–719, 1303–1323, 1892–1902
 - Regulatory Measures....Entry 242
 - Miscellaneous (Cognate Researches, Technic, etc.)
 Entries 243–248, 1324–1328, 1903–1904
- Pharmaceutical Botany and Pharmacognosy
 Entries 249–251, 720–732, 1329–1331, 1905–1918
- Physiology
 - General....Entries 252–255, 1332, 1919–1920
 - Protoplasm....Entry 733
 - Diffusion, Physico-Chemical Relations
 Entries 256–263, 734–750, 1333–1334, 1921–1924
 - Water Relations....Entries 264–265, 751
 - Photosynthesis....Entries 266, 755–756, 1338

Physiology—*continued.*
Mineral Nutrients.....Entries 752–754, 1335–1337, 1925–1928
Metabolism (General).....Entries 267–275, 757–765, 1339–1345, 1929–1946
Metabolism (Nitrogen Relations).....Entries 276–277, 1947–1951
Metabolism (Enzymes, Fermentation).....Entries 278–285, 1346, 1952–1956
Metabolism (Respiration, Aeration).....Entries 286–293, 766, 1957–1960
Growth, Development, Reproduction.....Entries 294–296, 767–772
Organism as a Whole.....Entries 1347–1350, 1961–1966
Movements of Growth and Turgor Changes.....Entries 297–301, 1967–1969
Regeneration, Correlation.....Entry 302
Germination, Renewal of Activity.....Entries 773–775
Temperature Relations.....Entries 303–305, 776–778, 1351–1354, 1970–1971
Radiant Energy Relations.....Entries 779, 1355–1358, 1972–1973
Toxic Agents.....Entries 306–307, 780–789, 1359–1365, 1974–1975
Electricity and Mechanical Agents.....Entries 308–309, 1976
Physiology of Disease.....Entry 310
Miscellaneous.....Entries 311–312, 1366, 1977
Soil Science.....Entries 313–321, 790–800, 1367–1383, 1978–1998
Taxonomy of Vascular Plants
General.....Entries 322–332, 801–810, 1384–1394, 1999–2008
Pteridophytes.....Entries 811–815, 2009–2010
Spermatophytes.....Entres 333–378, 816–848, 1395-1433, 2011–2049
Miscellaneous, Unclassified Publications.Entries 379–382, 849–858, 1434–1446, 2050–2066
Index to Authors' Names Appearing in Volume X.....Pages 317–333

ERRATA

VOLUME IX

Entry 351. *For* Clayley *read* Cayley
Entry 672. *For* Jeffrey *read* Jefferey
Entry 676. *For* Jeffrey *read* Jefferey
Authors' Index. *For* Clayley *read* Cayley
Author's Index. *For* Jeffrey, H. J. *read* Jefferey, H. J.

LIST OF ASSIGNED SERIAL PUBLICATIONS

The list here printed is an enumeration of the serial publications abstracted for all sections of BOTANICAL ABSTRACTS. (By a serial publication is here understood any publication which appears successively under the same title even though at long or irregular intervals.) The list is complete to January 1, 1922.

It is proposed to print the list once a year, and it is intended to serve the following specific purposes:

1. To inform the reader as to the precise extent to which BOTANICAL ABSTRACTS is covering serial literature which is likely to contain material falling within the scope of BOTANICAL ABSTRACTS. With it, the reader will be under no misapprehension concerning the completeness or incompleteness of the Journal.

2. To enable readers to bring to the attention of the Journal additional serials which should be abstracted. The serials being grouped by countries or geographical areas permits of easy detection of omissions.

Readers are urged to consult the list carefully and to call to the attention of the Bibliography Committee any serials omitted which should be abstracted. In this way readers may contribute to the improvement of the Journal. In communicating with the Bibliography Committee the exact titles of the omitted serials should be furnished.

In this period of readjustment many publications are either being discontinued or issued under new titles. Changes of this kind applying to serials in the list should also be communicated to the Bibliography Committee.

In the case of each serial, the portion of the title printed in bold face letters is the officially adopted abbreviation used in citing the publication.

All communications should be addressed to BOTANICAL ABSTRACTS, National Research Council, 1701 Massachusetts Avenue, Washington, D. C.

AFRICA

ALGERIA

Bulletin Agricole de l'Algérie et de la Tunisie
Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord
Revue Horticole de l'Algérie

BELGIAN CONGO

Annales du Musée du Congo Belge
Bulletin Agricole de Congo Belge
Congo

BRITISH EAST AFRICA PROTECTORATE

British East Africa Department of Agriculture Annual Report

EGYPT

Almanach de la Société Sultanienne
Annuaire de l'Université Egyptienne
Bulletin of the Alexandria [Egypt] Horticultural Society
Bulletin de l'Institut d'Egypte
Bulletin de l'Union des Agricultures d'Égypte
Cairo Scientific Journal
Department of Agriculture, Egypt, Horticultural Section Leaflet
Mémoires presentées à l'Institut d'Egypte

NYASALAND PROTECTORATE

Nyasaland Protectorate, Annual Report of the Department of Agriculture

RHODESIA

Rhodesia Agricultural Journal

TUNIS

Revue Tunisienne

UGANDA PROTECTORATE

Annual Report of the Department of Agriculture Uganda Protectorate

UNION OF SOUTH AFRICA

Annals of the Bolus Herbarium
Annals of the Natal Museum
Annual Progress Report, Forest Department, Union of South Africa
Annals of the South African Museum
Annals of the Transvaal Museum
Botanical Survey of South Africa Memoirs
Bothalia
Flowering Plants of South Africa
Journal of the Botanical Society of South Africa
Journal of the Department of Agriculture, Union of South Africa
Official Year Book of the Union of South Africa

Records of the Albany Museum [Grahamstown, South Africa]
Report of the South African Museum
South African Fruit Grower and Smallholder
South African Gardening and Country Life
South African Journal of Industries
South African Journal of Natural History
South African Journal of Science
South African Sugar Journal
Transactions of the Royal Society of South Africa
Union of South Africa, Department of Agriculture Science Bulletin

ZANZIBAR PROTECTORATE

Zanzibar Protectorate Annual Report of the Department of Agriculture

ASIA

CHINA

Annual Report of the Botanical and Forestry Department of Hongkong
Hua-Shang-Sha-Chang-Lien-Ho-Hui-Ki-Kan [China Cotton Journal]
Journal of the North China Branch of the Royal Asiatic Society
Ko-Hsueh [Science—a Publication of the Chinese Science Society]

CYPRUS

Cyprus Agricultural Journal

FEDERATED MALAY STATES

Agricultural Bulletin of the Federated Malay States
Department of Agriculture, Federated Malay States Bulletin
Journal of the Federated Malay States Museum

INDIA AND CEYLON

Administrative Report, Afforestation Division United Provinces
Agricultural Journal of India
Agricultural Research Institute Pusa Bulletin
Annual Report of the Agricultural Station of East Bengal and Assam
Annual Report and Proceedings of the Science Convention of the Indian Association for the Cultivation of Science
Annual Report of the Board of Scientific Advice for India
Annals of the Royal Botanic Garden, Calcutta
Annals of the Royal Botanic Garden of Peradeniya
Bulletin of the Carmichael Medical College, Belgachia
Bulletin, Department of Land Records and Agriculture, United Provinces of Agra and Oudh
Bulletin of the Madras Fisheries Bureau
Bulletin of the Madras Museum
Ceylon Administrative Reports Part IV.—Education, Science, and Art, Marine Biology
Department of Agriculture, Bombay, Bulletin
Department of Agriculture, Bombay, Leaflet
Department of Agriculture, Ceylon, Bulletin
Forest Leaflets [India]
Forest Pamphlet [India]
Indian Agriculturist
Indian Forester
Indian Forest Memoirs
Indian Forest Records
Indigo Publications of the Agricultural Research Institute, Pusa.
Journal of the Asiatic Society of Bengal
Journal of the Bombay Natural History Society
Journal of the Department of Science Calcutta University
Journal of Indian Botany
Journal of the Madras Agricultural Students Union
Memoirs of the Asiatic Society of Bengal
Memoirs of the Department of Agriculture of India Bacteriological Series
Memoirs of the Department of Agriculture of India Botanical Series
Memoirs of the Department of Agriculture of India Chemical Series
Mysore Agricultural Calendar
Mysore Department of Agriculture Bulletin Chemical Series
Mysore Department of Agriculture Bulletin General Series
Mysore Department of Agriculture Bulletin Mycological Series
Paleontologia Indica
Poona Agricultural College Magazine
Proceedings of the Agri-Horticultural Society of Madras
Proceedings of the Board of Agriculture in India
Proceedings of the Indian Association for the Cultivation of Science
Proceedings of the Planters Association of Ceylon
Quarterly Journal of the Indian Tea Association, Scientific Department
Records of the Botanical Survey, India
Records of the Geological Survey, India
Report of the Colombo Museum
Report of the Department of Agriculture of Madras
Report of the India Agricultural Station, Burma
Report of the Karimganj Agricultural Experiment Station
Report on the Operations of the Department of Agriculture of Burma
Review of the Agricultural Operations in India
Scientific Reports of the Agricultural Research Institute of Pusa
Spolia Zeylanica
Transactions of the Bose Research Institute of Calcutta
Tropical Agriculturist

INDO-CHINA

Bulletin Agricole de l'Institute Scientifique de Saigon
Bulletin Économique de l'Indochine

JAPANESE EMPIRE

Annals of the Phytopathological Society of Japan
Berichte des Ohara Instituts fur Landwirtschaftliche Forschungen
Botanical Magazine of Tokyo
Icones of the Essential Forest Trees of Hokkaido
Journal of the College of Agriculture of Hokkaido Imperial University
Journal of the College of Agriculture, Imperial University of Tokyo
Journal of the College of Science, Imperial University of Tokyo
Memoirs of the College of Science, Kyoto Imperial University

STRAITS SETTLEMENTS

Gardens' Bulletin Straits Settlements
Journal of the Straits Branch of the Royal Asiatic Society

AUSTRALIA, NEW ZEALAND AND TASMANIA

Agricultural Gazette of New South Wales
Annual Progress Report, Queensland Forest Service
Annual Progress Report, Woods and Forests Department, South Australia
Annual Progress Report, Woods and Forests Department, Western Australia
Australian Forestry Journal
Australian Garden and Field
Australian Museum Memoirs
Australian Museum Records
Australian Naturalist
Australian Sugar Journal
Journal of the Department of Agriculture, South Australia
Journal of the Department of Agriculture of Victoria
Journal of the Natural History and Science Society of Western Australia
Journal and Proceedings of the Royal Society of New South Wales
Memoirs of the Queensland Museum
New Zealand Journal of Agriculture
Northern Territory [Australia] Bulletin
Papers and Proceedings of the Royal Society of Tasmania
Proceedings of the Linnean Society of New South Wales
Proceedings of the Royal Society of Queensland
Proceedings of the Royal Society of Victoria
Report of the Minister of Agriculture, South Australia
Report of the Director, New South Wales Botanical Gardens
Science and Industry
Semi Annual Progress Report, Woods and Forest Department, Western Australia
Transactions and Proceedings of the New Zealand Institute
Transactions and Proceedings of the Royal Society of South Australia
Western Australia Woods and Forest Department Bulletin

EAST INDIES

BRITISH EAST INDIES

Sarawak Museum Journal

DUTCH EAST INDIES

Annales du Jardin Botanique de Buitenzorg
Archief voor de Rubbercultuur in Nederlandsch-Indië
Archief voor de Suikerindustrië in Nederlandsch-Indië
Bulletin du Jardin Botanique Buitenzorg
Korte Berichten uitgaande van de Selectie en Zaadtuin etc. [Nederlandsch-Indië]
Mededeelingen, Afdeeling Zaadteelt [Nederlandsch-Indië]
Mededeelingen v/h Algemeen Proefstation voor den Landbouw [Nederlandsch-Indië]
Mededeelingen v/h Besoekisch Proefstation
Mededeelingen v/h Instituut voor Plantenziekten [Nederlandsch-Indië]
Mededeelingen v/h Kina Proefstation [Nederlandsch-Indië]
Mededeelingen v/h Landbouwvoorlichtingsdienst [Nederlandsch-Indie]
Mededeelingen v/h Algemeen Proefstation der Algemeene Vereenigen Rubber-planters Oostkust Sumatra (Alg. Ser.)
Mededeelingen v/h Proefstation voor Boschwezen [Nederlandsch-Indië]
Mededeelingen v/h Proefstation Malang
Mededeelingen v/h Proefstation Midden Java
Mededeelingen v/h Proefstation voor Thee [Nederlandsch-Indië]
Mededeelingen v/h Proefstation voor Vorstenlandsche Tabak
Tectona
Teysmannia
Thee
Treubia
Tropische Natuur
Vlugschrift Deli Proefstation

PORTUGUESE EAST INDIES

Boletim de Agricultura [Nova Goa]

EUROPE

AUSTRIA

Annalen des Naturhistorischen Museums Wien
Centralblatt für das Gesamte Forstwesen [Wien]
Mitteilungen aus dem Forstlichen Versuchswesen Oesterreichs
Oesterreichische Botanische Zeitschrift
Oesterreichische Vierteljahresschrift für Forstwesen
Oesterreichische Zeitschrift für Kartoffelbau
Sitzungsberichte Akademie der Wissenschaften Wien (Math-Nat. Klasse)
Wiener Allgemeine Forst- und Jagdzeitung
Zeitschrift für das Landwirtschaftliche Versuchswesen in Deutsch Oesterreich
Zeitschrift der Wiener Gartenbaugesellschaft

BELGIUM

Annuaire de l'Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique
Annales de Biologie Lacustre
Annales et Bulletin de la Société Royale des Sciences Médicales et Naturelles de Belgique
Annales de Gembloux
Annales de Médecine Vétérinaire
Annales de la Société Géologique de Belgique, Liége
Archives de l'Institut Botanique, Université de Liége
Bulletin de la Classe des Sciences de l'Académie Royale de Belgique
Bulletin des Naturalistes Belges
Bulletin de la Société Belge de Géologie, de Paléontologie et d'Hydrologie
Bulletin de la Société Centrale Forestière de Belgique
Bulletin de la Société Royale de Botanique de Belgique
Bulletin de la Station Agronomique de l'État à Gembloux
Cellule
Isis
Mémoires de l'Académie Royale de Belgique Classe des Sciences
Mémoires du Musée Royal d'Histoire Naturelle Belgique
Mémoires de la Société Belge de Géologie de Paléontologie et d'Hydrologie Bruxelles
Mémoires de la Société Géologique de Belgique, Liége
Mémoires de la Société Royale des Sciences Liége
Revue Horticole Belge
Revue Zoologique Africaine (Supplément Botanique)
Traveaux de la Société Belge de Biologie

CZECHO SLOVAKIA

Abhandlungen Böhmischen Gesellschaft der Wissenschaften, Prague
Zeitschrift für Zuckerindustrie in Böhmen

DENMARK

Arbejder fra Botanisk Have [København]
Botanisk Tidsskrift
Comptes Rendus des Travaux du Laboratoire de Carlsberg
Dansk Botanisk Arkiv
Dansk Skovforenings Tidsskrift
Forstlige Försogsväsen i Danmark
Gartner-Tidende
Haven
K. Veterinaer og Landbohoejskole Aarsskrift
Meddedelser fra Foreningen til Svampekundskabens Fremme
Naturens Verden
Nordisk Jordbrugsforskning
Tidsskrift for Frøavl
Tidsskrift for Landokønomi
Tidsskrift for Planteavl
Tidsskrift for Skovvaesen
Ugeskrift for Landmaend
Vort Landbrug

FINLAND

Acta Societatis Scientiarum Fennicae
Ofversigt Finska Vetenskaps-Societetens Förhandlingar

FRANCE

Actes de la Société Linneènne de Bordeaux
Album Général des Cryptogames
Annales de le École Nationale d'Agriculture de Montpellier
Annales des Falsifications
Annales de l'Institut National Agronomique [France]
Annales de l'Institut Pasteur
Annales du Musée Colonial de Marseille
Annales de Paléontologie
Annales de la Science Agronomique Française et Étrangère
Annales des Science Naturelles—Botanique
Annales du Service des Épiphyties [France]
Annales de l'Université de Lyon
Année Biologique
Archives Internationales de Physiologie
Archives de Médecine Experimentale et d'Anatomie Pathologique
Bulletin de l'Académie Internationale de Géographie Botanique
Bulletin Agricole et Viticole de la Touraine
Bulletin de l'Association des Chimistes de Sucrerie et de Distillerie de France et des Colonies
Bulletin de la Commission Internationale pour l'Exploration Scientifique de la Mer Méditerranée
Bulletin de l'Institut Oceanographique de Monaco
Bulletin de l'Institut Pasteur
Bulletin Mensuel de l'Académie des Sciences, Lettres de Montpellier
Bulletin Mensuel d'Horticulture, de Viticulture et d'Études Agronomiques du Puy-de-Dome
Bulletin, Muséum d'Histoire Naturelle Paris
Bulletin de l'Office de Renseignements Agricoles, France
Bulletin des Sciences Pharmacologiques
Bulletin de la Société Botanique de France
Bulletin de la Société Dendrologique de France
Bulletin de la Société d'Études Scientifiques d'Angers
Bulletin de la Société de Pathologie Végétale de France
Bulletin de la Société Philomathique de Paris
Bulletin de la Société des Sciences Naturelles de l'Ouest de la France
Bulletin Trimestriel dé la Société Forestière de Franche-Comté et Belfort
Bulletin Trimestriel, Société Mycologique de France
Comptes Rendus des Séances de l'Académie d'Agriculture de France
Comptes Rendus de l'Académie des Sciences, Paris
Comptes Rendus des Séances de la Société de Biologie [Paris]
Horticulture Nouvelle
Icones Florae Alpinae Plantarum
Journal d'Agriculture Tropicale
Journal de Pharmacie et de Chimie
Journal de Physiologie et de Pathologie Générale
Journal de la Société Nationale d'Horticulture de France
Mémoires de l'Académie des Sciences, Inscriptions, et Belles-lettres, Toulouse
Mémoires de la Société Botanique de France
Mémoires de la Société Fribourgeoise des Sciences Naturelles Botanique
Mémoires de la Société Linneènne du Nord de la France
Mémoires de la Société des Sciences Physiques et Naturelles de Bordeaux
Notulae Systematicae
Palaeontologia Universalis
Progrés Agricole et Viticole
Recueil des Publications de la Société Havraise d'Études Diverses
Répertoire de Pharmacie: Archives de Pharmacie et Journal de Chimie Médicale
Revue d'Auvergne
Revue Bryologique
Revue des Eaux et Forêts
Revue Générale Botanique
Revue Générale des Sciences Pures et Appliquées
Revue Horticole
Revue de Viticulture

GERMANY

Abhandlungen der Leopoldinisch-Carolinischen Deutschen Akademie der Naturforscher
Abhandlungen des Naturwissenschaftlichen Vereins zu Bremen
Abhandlungen Senckenbergischen Naturforschenden Gesellschaft Frankfurt a/M
Allgemeine Botanische Zeitschrift
Allgemeine Forst- und Jagd-Zeitung
Anatomischer Anzeiger
Angewandte Botanik
Annalen der Chemie [Liebig]
Annales Mycologici
Annalen der Physik
Apotheker-Zeitung
Arbeiten aus der Biologischen Reichsanstalt für Land- und Forstwirtschaft
Arbeiten der Deutschen Landwirtschafts Gesellschaft
Archiv für Anatomie und Physiologie. Anatomische Abteilung
Archiv für Anatomie und Physiologie. Physiologische Abteilung
Archiv für Entwicklungsmechanik der Organismen
Archiv für Hydrobiologie und Planktonkunde
Archiv für Naturgeschichte Abteilung A

Archiv für Naturgeschichte Abteilung B
Archiv der Pharmazie
Archiv für Protistenkunde
Archiv für Rassen- und Gesellschafts-biologie
Archiv für Zellforschung
Beihefte zum Botanischen Centralblatt
Beiträge zur Biologie der Pflanzen
Beiträge zur Pathologischen Anatomie
Berichte der Deutschen Botanischen Gesellschaft
Berichte der Deutschen Chemischen Gesellschaft
Berichte der Naturforschenden Gesellschaft zu Freiburg in Breizgau
Bericht des Naturwissenschaftlichen Vereins Schwaben und Neuburg
Bericht der Senckenbergischenden Gesellschaft in Frankfurt a/M
Bibliotheca Botanica
Biochemische Zeitschrift
Biologisches Centralblatt
Blätter für Zuckerrübenbau.
Botanische Jahrbucher für Systematik Pflanzengeschichte und Pflanzengeographie
Centralblatt für Allgemeine Pathologie
Centralblatt für Bakteriologie und Parasitenkunde II Abt.
Centralblatt für die Zuckerindustrie
Deutsche Forstzeitung
Deutsche Landwirtschaftliche Presse
Ergebnisse der Hygiene, Bakteriologie, Immunitätsforschung und Experimentellen Therapie
Ergebnisse der Physiologie
Fermentforschung
Flora
Forstwissenschaftliche Centralblatt
Fühlings Landwirtschaftliche Zeitung.
Gartenflora
Gartenschönheit
Gartenwelt
Handelsbericht, Gehe & Co.
Hedwigia
Illustrierte Landwirtschaftliche Zeitung
Institut für Allgemeine Botanik Bericht
Internationale Mitteilungen für Bodenkunde
Jahrbücher der Nassauischen Vereins für Naturkunde
Jahrbucher für Wissenschaftliche Botanik
Jahresbericht über die Fortschritte der Physiologie
Jahresbericht über das Gebiet der Pflanzenkrankheiten
Jenaische Zeitschrift für Naturwissenschaft
Journal für Landwirtschaft
Kolloid Zeitschrift
Kolloidchemische Beihefte
Landwirtschaftliche Hefte
Landwirtschaftliche Jahrbücher
Landwirtschaftliche Jahrbücher Ergänzungsband
Landwirtschaftliche Versuchs-Stationen
Leopoldina
Mitteilungen des Badischen Landesvereins für Naturkunde und Naturschutz, Freiburg in Breizgau
Mitteilungen der Deutschen Dendrologischen Gesellschaft
Mitteilungen der Deutschen Landwirtschafts Gesellschaft
Mitteilungen des Thüringischen Botanischen Vereins
Möllers Deutscher Gärtnerzeitung
Monatschrift für Kakteenkunde
Naturwissenschaften
Notizblatt des Botanischen Gartens und Museums zu Berlin
Orchis
Palaeobotanische Zeitschrift
Pflanzenreich [Engler]
Pharmazeutische Zentralhalle für Deutschland
Praktische Blätter für Pflanzenbau und Pflanzenschutz
Progressus Rei Botanicae
Schriften der Naturwissenschaftlichen Vereins für Schleswig-Holstein
Sitzungsberichte Bayerischen Akademie der Wissenschaften (Mathematisch-Physikalische Klasse)
Sitzungsberichte Bayerischen Akademie der Wissenschaften (Philosophisch-Philologische Klasse)
Sitzungsberichte der Naturforschenden Gesellschaft zu Leipzig
Sitzungsberichte der Niederrheinischen Gesellschaft für Natur- u. Heilkunde zu Bonn
Sitzungsberichte Preussischen Akademie der Wissenschaften Berlin
Tharander Forstliches Jahrbuch
Verhandlungen des Naturhistorischen Vereins der Preussischen Rheinlände und Westfalens
Vorträge aus dem Gesammtgebiet der Botanik
Zeitschrift für Allgemeine Physiologie
Zeitschrift für Angewandte Chemie
Zeitschrift für Botanik
Zeitschrift für Forst- und Jagdwesen
Zeitschrift für Hygiene und Infektionskrankheiten
Zeitschrift für Immunitätsforschung und Experimentelle Therapie
Zeitschrift für Induktive Abstammungs-und Vererbungslehre
Zeitschrift für Instrumentkunde
Zeitschrift für Krebsforschung
Zeitschrift für Pflanzenkrankheiten
Zeitschrift für Pflanzenzuchtung
Zeitschrift für Physikalische Chemie
Zeitschrift für Physiologische Chemie
Zeitschrift für Technische Biologie
Zeitschrift für Tuberkulose
Zeitschrift für Untersuchung der Nahrungs-und Genussmittel
Zeitschrift Vereins der Deutschen Zuckerindustrie
Zeitschrift für Wissenschaftliche Mikroskopie
Zentralblatt für die Gesamte Landwirtschaft

GREAT BRITAIN AND IRELAND

Aberdeen and North of Scotland College of Agriculture Experimental Leaflet
Annals of Applied Biology
Annals of Botany
Annals and Magazine of Natural History
Annual Report of the Agricultural and Horticultural Research Station University of Bristol
Annual Report of the Experimental and Research Station, Waltham Cross
Board of Agriculture and Fisheries, Great Britain, Food Production Leaflets
Board of Agriculture and Fisheries, Great Britain, Leaflets
Board of Agriculture and Fisheries, Great Britain, Special Leaflets
Board of Agriculture and Fisheries, Great Britain, Miscellaneous Publications
Biochemical Journal
Biometrika
Botanical Memoirs [Oxford]
Botanical Society and Exchange Club of the British Isles Report
Bulletin of the Imperial Institute of the United Kingdom of Great Britain

Bulletin of the University College of Reading
Chemist and Druggist
Curtis Botanical Magazine
Economic Proceedings of the Royal Dublin Society
Gardeners' Chronicle
Geographical Journal
Glasgow Naturalist
Great Britain Colonial Reports
International Sugar Journal
Irish Naturalist
Journal of Agricultural Science
Journal of the Bath and Western and Southern Counties Society
Journal of Botany
Journal of Comparative Pathology and Therapeutics
Journal of the Department of Agriculture and Technical Instruction for Ireland
Journal of Ecology
Journal of Genetics
Journal of Hygiene
Journal of the Linnean Society Botany of London
Journal of the Marine Biological Association of the United Kingdom
Journal of the Ministry of Agriculture, Great Britain
Journal of the Ministry of Agriculture, Great Britain, Supplement
Journal of Physiology
Journal of Pomology
Journal of the Quekett Microscopical Club
Journal of the Royal Agricultural Society of England
Journal of the Royal Horticultural Society
Journal of the Royal Microscopical Society of London
Journal of the Royal Society of Arts
Journal of the Society of Chemical Industry
Journal of Tropical Medicine and Hygiene
London, Edinburgh and Dublin Philosophical Magazine
Memoirs and Proceedings of the Manchester Literary and Philosophical Society
Moss Exchange Club Annual Report
Nature
New Phytologist
North of Scotland College of Agriculture Bulletins
Notes from the Botanical School of Trinity College, Dublin
Notes of the Royal Botanic Garden of Edinburgh
Parasitology
Pharmaceutical Journal and Pharmacist
Philosophical Transactions of the Royal Society of London B
Proceedings of the Birmingham Natural History and Philosophical Society
Proceedings of the Cambridge Philosophical Society
Proceedings of the Royal Institution of London
Proceedings of the Royal Irish Academy
Proceedings of the Royal Society of Edinburgh
Proceedings of the Royal Society of London B
Proceedings and Transactions of the Liverpool Biological Society
Proceedings of the University of Durham Philosophical Society
Quarterly Journal of Forestry
Quarterly Journal of Microscopical Science
Quarterly Summary and Meteorological Readings of the Royal Botanic Society of London
Report of the British Association for the Advancement of Science
Report and Proceedings of the Belfast Natural History and Philosophical Society
Report of the Woburn Experimental Fruit Farm
Review of Bacteriology
Rhododendron Society Notes
Rothamsted Experimental Station Reports
Royal Botanic Gardens, Kew, Bulletin of Miscellaneous Information
Royal Botanic Gardens, Kew, Bulletin of Miscellaneous Information, Appendix
Scientific Proceedings of the Royal Dublin Society
Science Progress
School Science Review
Scottish Journal of Agriculture
Transactions and Annual Report of the Manchester Microscopical Society
Transactions of the British Mycological Society
Transactions of the Cambridge Philosophical Society
Transactions of the Highland and Agricultural Society of Scotland
Transactions of the Linnean Society of London
Transactions of the Natural History Society of Northumberland, Durham, and Newcastle-upon-Tyne
Transactions and Proceedings of the Botanical Society of Edinburgh
Transactions of the Royal Scottish Arboricultural Society
Transactions of the Royal Society of Edinburgh
Tropical Life
Tropical Veterinary Bulletin
West of Scotland Agricultural College Report
Yearbook of Pharmacy and Transactions of the British Pharmaceutical Conference

ITALY

Agricoltura Bolognese
Agricoltura di Terra Lavora
Annali del Museo Civico di Storia Naturale Giacomo Doria
Annali della R. Scuola Superiore d' Agricoltura di Portici
Annali della R. Stazione Sperimentale di Agrumicoltura e Frutticoltura, Acireale
Archivio di Fisiologie
Atti, R. Accademia dei Lincei, Roma, Rendiconti, Classe di Scienze Fisiche, Matematiche e Naturali
Atti, R. Accademia della Scienze di Torino
Atti della Società Toscana di Scienze Naturali residente in Pisa—Memoire
Atti della Società Toscana di Scienze Naturali, Pisa—Processi Verbali
Bollettino delle R. Orto Botanico di Palermo
Bolletino, Società Botanica Italiana
Bolletini della R. Stazione Sperimentale de Agrumicoltura e Frutticoltura di Acireale
Bollettino della Società di Naturalisti Napoli
Gazzetta Chimica Italiana
Giornale di Risicoltura
Malpighia
Memoria della R. Stazione de Patologia Vegetale Roma
Minerva Agraria
Nouvo Giornale Botanico Italiano
Nuova Notarisia
Pubblicazione Mensile, R. Osservatorio di Fitopatologia Torino
R. Istituto Lombardo di Scienze e Lettere Rendiconti
Rivista di Patologia Vegetale
Scientia
Sperimentale
Stazioni Sperimentali Agrarie Italiane
Studi e Ricerche della R. Universita di Pisa
Sylloge Fungorum [Saccardo]

THE NETHERLANDS

Aarde en haar Volkeren
Archives Néerlandaises des Sciences Exactes et Naturelles
Cultura
Folia Microbiologica
Jaarboek van de K. Akademie van Wetenschappen, Amsterdam
Jaarverslagen van het Instituut voor Phytopathologie Wageningen
Levende Natuur
Mededeelingen van de Landbouwhoogeschool en van de daaran Verbonden Instituten [Wageningen]
Mededeelingen van de Nederlandsche Mycologische Vereeniging
Mededeelingen, Phytopathologisch Laboratorium "Willie Commelin Scholten"
Mededeelingen vans' Rijks Herbarium
Mededeelingen van de Vereeniging tot Bevoordering van Wetenschappelijke Teelt
Mededeelingen v/h Vereeniging "Kolonial Instituut"
Natuur
Nederlandsch Kruidkundig Archief
Pharmaceutisch Weekblad
Proceedings of the Royal Academy of Science, Amsterdam
Recueil des Traveaux Botaniques Néerlandais
Tijdschrift der Nederlandsche Heidemaatschappij
Tijdschrift over Plantenziekten
Vereeniging "Kolonial Instituut" Jaarverslag
Verhandelingen 2 Sectie der K. Akademie van Wetenschappen, Amsterdam
Verslagen K. Akademie van Wetenschappen, Amsterdam
Verslagen van Landbouwkundige Onderzoekingen der Rijkslandbouwproefstations [Nederland]
Verslagen en Mededeelingen, Directie van Landbouw, Departement van Landbouw, Nijverheid en Handel [Nederland]
Verslagen en Mededeelingen van den Plantenziektenkundigen Dienst te Wageninen
Verslag over de Werkzaamheiden van den Phytopathologischen Dienst te Wageningen
Vlugblatt, Phytopathologisch Laboratorium "Willie Commelin Scholten"
Weekblad voor Bloembollencultuur
Zittingsverslagen der K. Akademie van Wetenschappen, Amsterdam

NORWAY

Bergens Museums Aarbok Naturhistorisk Raekke
Bergens Museums Aarsberetning
Bilag til Tidsskrift for Skogbruk
Indberetning om det Norske Skogvaesen
Nyt Magazin for Naturvidenskaberne
Skrifter K. Norske Videnskabers Selskab
Tidsskrift for Skogbruk
Tromsö Museums Aarshefter
Videnskabs-selskabet i Christiania Forhandlinger Matematisk-Naturvidenskabelie Klasse
Videnskabs-selskabet i Christiania Skrifter Matematisk-Naturvidenskabelie Klasse

PORTUGAL

Broteria, Serie Botanica
Bulletin de la Société Portugaise des Sciences Naturelles
Mémoires publies par la Société Portugaise des Sciences Naturelles
Travaux de la Station de Biologie Maritime de Lisbonne

RUSSIA

Ezheghodnik Lyesnogho Departamenta
Izvyestiya Imperatorskagho Lyesnogho Instituta
Lyesnoi Zhurnal
Lyesopromuishlennuii Vyestnik
Russisches Journal für Experimentalle Landwirtschaft
Selskoe Khozyaistvo i Lyesovodstvo
Zhurnal Opytnoi Agronomia

SPAIN

Boletin de Agricultura Técnica y Económica [España]
Boletin, Asociacion de Agricultores de España
Boletin de la R. Sociedad Española de Historia Natural Informacion Agricole [Madrid]
Memorias de la R. Academia de Ciencias y Artes Barcelona
Memorias de la R. Sociedad Española de Historia Natural
Musei Barcinonensis Scientiarum Naturalium Opera Series Botanica
Revista del Instituto Agricola Catalan de San Isidro
Revista de la R. Academia de Ciencias Exactas Físicas y Naturales [Madrid]
Trabajos del Museo Nacional de Ciencias Naturales—Ser. Bot.

SWEDEN

Acta Horti Bergiani
Arkiv for Botanik
Botaniska Notiser
Hereditas
Meddelanden från Statens Skogsförsöksanstalt
Skogen
Skogsvardsforeningens Tidskrift
Svensk Botanisk Tidskrift
Svensk Farmaceutisk Tidskrift

SWITZERLAND

Annuaire de la Conservatoire et Jardin Botanique Genève
Archives des Sciences Physiques et Naturelles [Genève]
Berichte der Schweizerische Botanische Gesellschaft
Bulletin de la Société Botanique de Genève
Bulletin de la Société Vaudoise des Sciences Naturelles
Comptes Rendus des Séances de la Société de Physique et d'Histoire Naturelle de Genève
Journal Forestier Suisse
Landwirtschaftliches Jahrbuch der Schweiz
Mémoires de la Société Fribourgeosie des Sciences Naturelles Botanique
Mémoires de la Société de Physique et d'Histoire Naturelle de Genève
Mitteilungen Naturforschenden Gesellschaft, Bern
Mitteilungen der Schweizerische Centralanstalt für das Forstliche Versuchswesen
Schweizerische Apotheker-Zeitung
Schweizerische Zeitschrift für Fortwesen
Verhandlungen der Naturforschenden Gesellschaft, Basel
Vierteljahresschrift der Naturforschenden Gesellschaft in Zurich

NORTH AMERICA

ALASKA

Alaska Agricultural Experiment Station Bulletin
Alaska Agricultural Experiment Station Circular
Report of the Alaska Agricultural Experiment Station

CANADA

Agricultural Gazette of Canada
Agricultural Journal [British Columbia]
Annual Report of the British Columbia Fruit Growers Association
Annual Report of the Department of Agriculture, Prince Edward Island
Annual Report, Fruit Growers Association of Nova Scotia
Annual Report, Fruit Growers Association Prince Edward Island
Annual Report of the Quebec Society for the Protection of Plants
Annual Report, Secretary for Agriculture Nova Scotia
British Columbia Annual Report of the Department of Agriculture
British Columbia Department of Agriculture Bulletin
British Columbia Department of Agriculture Circular
British Columbia Department of Agriculture Circular Bulletin
British Columbia Department of Agriculture Circular New Horticultural Series
Bulletin of the Natural History Society of New Brunswick
Canadian Alpine Journal
Canadian Field Naturalist
Canadian Horticulturist
Canadian Seed Growers' Association Annual Report
Department of the Interior, Canada, Forestry Branch Bulletin
Department of the Interior, Canada, Forestry Branch Circular
Department of the Interior, Canada, Forestry Branch, Report of the Director of Forestry
Illustrated Canadian Forestry Magazine
Naturaliste Canadien
Proceedings of the Natural History Society of Montreal
Proceedings and Transactions of the Nova Scotia Institute of Science
Proceedings and Transactions of the Royal Society of Canada
Province of New Brunswick, Department of Agriculture Bulletin
Nova Scotia Department of Agriculture Bulletin
Pulp and Paper Magazine
Report on Agriculture for the Province of New Brunswick
Report of the Herbarium and Botanical Garden, University of British Columbia
Report of the Horticultural Experiment Station Vineland Station Ontario
Report on Horticulture for the Province of New Brunswick
Scientific Agriculture
Transactions of the Royal Canadian Institute
University of Toronto Studies—Biological Series
University of Toronto Studies—Physiological Series

MEXICO AND CENTRAL AMERICA

Agricultor Mexicano y Hogar
Boletin de la Camara Agricola Nacional de Leon
Boletin Oficial de la Agencia General de la Secretaria de Agricultura y Fomento en Sinaloa y Nayarit
Jalisco Rural
Memorias y Rivista de la Sociedad Científica "Antonio Alzate"
Michoacan Agricola
Revista Agricola [Mexico]
Revista de Agricultura Tropical

UNITED STATES

Abstracts of Bacteriology
Addisonia
Advance Sheets, Field Operations of the U. S. Bureau of Soils
Alabama Agricultural Experiment Station Bulletin
Alabama Agricultural Experiment Station Circular
Alabama Geological Survey Bulletin
Alabama Geological Survey Monograph
American Botanist
American Cranberry Growers' Association, Proceedings of the Annual Convention
American Cranberry Growers' Association Proceedings of the Annual Meeting
American Druggist and Pharmaceutical Record
American Fern Journal
American Fertilizer
American Forestry
American Journal of Botany
American Journal of Medical Science
American Journal of Pharmacy
American Journal of Physiology
American Journal of Public Health
American Journal of Science
American Naturalist
American Nurseryman
American Nut Journal
American Plant Pest Committee Bulletin
American Seedsman
Ames Forester
Annals of the Carnegie Museum
Annals of the Missouri Botanical Garden
Annals of the New York Academy of Sciences
Annual Report Demonstration Farms for North Dakota
Annual Report of the Indiana State Board of Forestry
Annual Report of the Maryland Agricultural Experiment Station
Annual Report of the Massachusetts Agricultural Experiment Station
Annual Report of the Massachusetts Department of Agriculture
Annual Report of the New Jersey [State and College] Experiment Stations
Annual Report of the North Carolina Agricultural Experiment Station
Annual Report of the Smithsonian Institution
Annual Report of the State Forester Minnesota Forestry Board
Annual Report of the Vermont State Horticultural Society
Arkansas Agricultural Experiment Station Bulletin
Arkansas Agricultural Experiment Station Circular
Associated Grower
Astro-Physical Journal
Better Fruit
Biennial Report of the Montana State Board of Horticulture
Biennial Report of the State Forester California
Biological Bulletin
Botanical Gazette
Brooklyn Botanic Garden Memoirs
Brooklyn Botanic Garden Record
Bryologist
Bulletin of the Buffalo Society of Natural History
Bulletin of the Illinois Natural History Survey
Bulletin of the Iowa Geological Survey
Bulletin of the New York Botanical Garden
Bulletin of the North Carolina Department of Agriculture
Bulletin of the Pan American Union

Bulletin of the Pennsylvania Department of Agriculture
Bulletin of Peony News
Bulletin of Pharmacy
Bulletin of the Rhode Island State College
Bulletin of the Scientific Laboratories, Denison University
Bulletin of the Southern California Academy of Science
Bulletin of the State Board of Agriculture of Delaware
Bulletin of the Torrey Botanical Club
Bulletin of the U. S. Bureau of Fisheries
Bulletin of the Vermont Botanical and Bird Clubs
Bulletin of the Wisconsin Geological and Natural History Survey
Bulletin of the Wisconsin Natural History Society
Bulletin of the Wisconsin State Conservation Commission
California Agricultural Experiment Station Bulletin
California Agricultural Experiment Station Circular
California State Board of Forestry Bulletin
California State Board of Forestry Circular
Carnegie Institution of Washington Publications
Charleston [South Carolina] Museum Bulletin
Colorado Agricultural Experiment Station Bulletin
Colorado College Publications Science Series
Connecticut [New Haven] Agricultural Experiment Station Bulletin
Connecticut [New Haven] Agricultural Experiment Station and Storrs [Connecticut] Agricultural Experiment Station Joint Bulletin
Contributions from the Botanical Laboratory of the University of Pennsylvania
Contributions from the Gray Herbarium
Contributions from the U. S. National Herbarium
Cornell University Agricultural Experiment Station Memoirs
Delaware Agricultural Experiment Station Bulletin
Director's Report, Kansas Agricultural Experiment Station
Druggist
Druggists' Circular
Ecology
Education
Educational Review
Entomological News
Facts about Sugar
Field Museum of Natural History Publications Botanical Series
Florida Grower
Florists' Exchange
Garden Magazine
General Science Quarterly
Genetics
Gentes Herbarum
Geological and Biological Survey of Michigan Publications Biological Series
Georgia Experiment Station Bulletin
Georgia Experiment Station Circular
Georgia State Board of Entomology Bulletin
Georgia State Board of Entomology Circular
Georgia State College of Agriculture Bulletin
Horticulture
House and Garden
Illinois Agricultural Experiment Station Bulletin
Illinois Agricultural Experiment Station Circular
Illinois Agricultural Experiment Station Extension Circular
Illinois Biological Monographs
International Cooperative Bulletin
Iowa Agricultural Experiment Station Bulletin
Iowa Agricultural Experiment Station Circular
Iowa Agricultural Experiment Station Research Bulletin
Iowa Conservation
Iowa Naturalist
Johns Hopkins University Circular
Josselyn Botanical Society of Maine Bulletin
Journal of the Academy of Natural Sciences of Philadelphia
Journal of Agricultural Research
Journal of the American Chemical Society
Journal of the American Medical Association
Journal of the American Peat Society
Journal of the American Pharmaceutical Association
Journal of the American Society of Agronomy
Journal of the American Veterinary Medical Association
Journal of the Arnold Arboretum
Journal of the Association of Official Agricultural Chemists
Journal of Bacteriology
Journal of Biological Chemistry
Journal of the Cincinnati Society of Natural History
Journal of Economic Entomology
Journal of the Elisha Mitchell Scientific Society
Journal of Experimental Pathology and Therapeutics
Journal of Experimental Zoology
Journal of Forestry
Journal of the Franklin Institute
Journal of General Physiology
Journal of Heredity
Journal of Industrial and Engineering Chemistry
Journal of Infectious Diseases
Journal of the International Garden Club
Journal of Medical Research
Journal of Morphology
Journal of the New York Botanical Garden
Journal of Parasitology
Journal of Philosophy, Psychology and Scientific Methods
Journal of Physical Chemistry
Journal of the Washington [D. C.] Academy of Sciences
Kansas Agricultural Experiment Station Bulletin
Kansas Agricultural Experiment Station Circular
Kansas Agricultural Experiment Station Technical Bulletin
Kentucky Agricultural Experiment Station Bulletin
Kentucky Agricultural Experiment Station Circular
Kentucky State Forester Circular
Landscape Architecture
Lilly Scientific Bulletin
Louisiana Agricultural Experiment Station Bulletin
Louisiana Division of Forestry, Department of Conservation Report
Louisiana Planter and Sugar Manufacturer
Louisiana State Museum Annual Report of the Board of Curators
Louisiana State Museum Biennial Report of the Board of Curators
Louisiana State University, Division of Agriculture Extension Circular
Madroño
Maine Naturalist
Market Growers' Journal
Maryland Agricultural Experiment Station Bulletin
Massachusetts Agricultural Experiment Station Bulletin
Massachusetts Department of Agriculture Circulars
Massachusetts Fruit Growers Association Annual Report
Massachusetts State Nursery Inspector Annual Report
Massachusetts State Nursery Inspector Circulars
Mazama
Memoirs of the California Academy of Science
Memoirs of the Carnegie Museum
Memoirs of the Connecticut Academy of Arts and Sciences
Memoirs of the Gray Herbarium
Memoirs of the National Academy of Sciences [U. S.]

Memoirs of the New York Botanical Garden
Memoirs and Proceedings of the Thoreau Museum of Natural History
Memoirs of the Torrey Botanical Club
Merck's Report
Michigan Academy of Science Annual Report
Michigan Agricultural College Forestry Club Annual
Michigan Agricultural Experiment Station Bulletin
Michigan Agricultural Experiment Station Circular
Michigan Agricultural Experiment Station Quarterly Bulletin
Michigan Agricultural Experiment Station Special Bulletin
Michigan Agricultural Experiment Station Technical Bulletin
Minnesota Agricultural Experiment Station Bulletin
Minnesota Horticulturist
Mississippi Agricultural Experiment Station Annual Report
Mississippi Agricultural Experiment Station Bulletin
Mississippi Agricultural Experiment Station Circular
Mississippi Agricultural Experiment Station Technical Bulletin
Mississippi Geological Survey Bulletin
Missouri Agricultural Experiment Station Bulletin
Missouri Agricultural Experiment Station Circular
Missouri Agricultural Experiment Station Research Bulletin
Missouri Botanical Garden Bulletin
Montana Agricultural Experiment Station Bulletin
Montana Agricultural Experiment Station Circular
Monthly Bulletin of the California Department of Agriculture
Monthly Bulletin of the Ohio Agricultural Experiment Station
Monthly Bulletin of the Western Washington Experiment Station
Monthly Weather Review
Monthly Weather Review Supplement
Mundo Azucarero
Mycological Notes [C. G. Lloyd]
Mycologia
Natural History
Nature Study Review
National Geographic Magazine
National Nurseryman
Nebraska Agricultural Experiment Station Bulletin
Nebraska Agricultural Experiment Station Research Bulletin
Nebraska Horticulture
Nemophila
New Hampshire Agricultural Experiment Station Bulletin
New Hampshire Agricultural Experiment Station Circular
New Jersey Agricultural Experiment Station Bulletin
New Jersey Agricultural Experiment Station Circular
New Jersey State Museum Annual Report
New York Agricultural Experiment Station [Cornell] Bulletin
New York Agricultural Experiment Station [Geneva] Bulletin
New York Agricultural Experiment Station [Geneva] Technical Bulletin
New York State Museum Bulletin
New York State Museum Memoirs
North American Flora
North Carolina Agricultural Experiment Station Bulletin
North Carolina Agricultural Experiment Station Circular
North Carolina Agricultural Experiment Station Technical Bulletin
North Carolina Agricultural Extension Service Extension Circular
North Carolina Department of Agriculture Biennial Report
North Dakota Agricultural Experiment Station Annual Report
North Dakota Agricultural Experiment Station Bulletin
North Dakota Agricultural Experiment Station Extension Division Circular
North Dakota Agricultural Experiment Station Special Bulletin
Northwestern Miller
Oberlin College Laboratory Bulletin
Occasional Papers of the California Academy of Science
Ohio Agricultural Experiment Station Bulletin
Ohio Agricultural Experiment Station Circular
Ohio Agricultural Experiment Station Technical Series Bulletin
Ohio Biological Survey Bulletin
Ohio Forester
Ohio Journal of Science
Ohio State University Bulletin
Ohio State University Studies
Oil, Paint and Drug Reporter
Oklahoma Agricultural Experiment Station Bulletin
Oklahoma Agricultural Experiment Station Circular
Oklahoma Agricultural Experiment Station Report
Operative Miller
Oregon Agricultural Experiment Station Bulletin
Oregon Agricultural Experiment Station Crop Pest and Horticultural Report
Oregon Out of Doors
Pacific Fisherman
Pacific Fisherman Year Book
Pacific Pharmacist
Paper
Paper Industry
Park and Cemetary
Pennsylvania Agricultural Experiment Station Bulletin
Pharmaceutical Era
Physical Review
Physiological Researches
Physiological Research: Preliminary Abstracts
Phytopathology
Potato Magazine
Practical Druggist
Proceedings of the Academy of Natural Sciences of Philadelphia
Proceedings of the Alabama Horticultural Society
Proceedings of the American Academy of Arts and Sciences
Proceedings of the American Philosophical Society
Proceedings of the American Pomological Society
Proceedings of the American Society of Biological Chemists
Proceedings of the American Society for Horticultural Science
Proceedings of the Association of Official Seed Analysts
Proceedings of the Biological Society of Washington [D. C.]
Proceedings of the Boston Society of Natural History
Proceedings of the California Academy of Science
Proceedings of the Colorado Scientific Society
Proceedings of the Davenport [Iowa] Academy of Science
Proceedings of the Gulf Coast Horticultural Society
Proceedings of the Indiana Academy of Science
Proceedings of the Iowa Academy of Science
Proceedings of the National Academy of Sciences [U. S.]
Proceedings of the Oregon Horticultural Society
Proceedings of the Pennsylvania Pharmaceutical Association
Proceedings of the Portland [Maine] Society of Natural History
Proceedings of the Rochester [New York] Academy of Science

Proceedings of the Society for Experimental Biology and Medicine
Proceedings of the Society for the Promotion of Agricultural Science
Proceedings of the U. S. National Museum
Publications of the Nebraska Academy of Science
Publications of the Ohio State Forestry Association
Publications of the Puget Sound Biological Station
Publications of the University of Southern California
Purdue University Agricultural Experiment Station Bulletin
Purdue University Agricultural Experiment Station Circular
Quarterly Bulletin, Virginia Crop Pest Commission
Quarterly Journal of the University of North Dakota
Report of the Iowa Board of Conservation
Report of the Iowa Geological Survey
Report of the Iowa Horticultural Society
Report of the Maryland Weather Service
Report of the Public Domain Commission of Michigan
Report of the Wisconsin State Conservation Commission
Rhode Island Agricultural Experiment Station Annual Report
Rhode Island Agricultural Experiment Station Bulletin
Rhodora
School Science and Mathematics
School and Society
Scientific American
Scientific Monthly
Science
Seed World
Service and Regulatory Announcements U. S. Federal Horticultural Board
Sierra Club Bulletin
Smithsonian Miscellaneous Collections
Soil Science
South Carolina Agricultural Experiment Station Annual Report
South Carolina Agricultural Experiment Station Bulletin
South Carolina Agricultural Experiment Station Circular
South Carolina Agricultural Experiment Station Extension Circular
South Dakota Agricultural Experiment Station Bulletin
Southern Pharmaceutical Journal
Southwest Science Bulletin
Stanford University Publications University Series, Biological Sciences
Storrs [Conneticut] Agricultural Experiment Station Bulletin
Sugar
Tennessee Agricultural Experiment Station Bulletin
Texas Agricultural Experiment Station Bulletin
Texas Agricultural Experiment Station Circular
Texas Agricultural Experiment Station Forestry Bulletin
Torreya
Transactions of the American Microscopical Society
Transactions of the American Philosophical Society
Transactions of the Connecticut Academy of Arts and Sciences
Transactions of the Kansas Academy of Science
Transactions of the Illinois State Academy of Science
Transactions of the Indiana Horticultural Society
Transactions of the St. Louis Academy of Science
Transactions of the San Diego [California] Society of Natural History
Transactions of the Utah Academy of Science
Transactions of the Wagner Free Institute of Science
Transactions of the Wisconsin Academy of Sciences, Arts, and Letters
Trillia
Tufts College Studies Science Series
University of California Publications in Agricultural Science
University of California Publications in Botany
University of California Publications in Physiology
University of California Publications in Zoology
University of Cincinnati Studies
University of Colorado Studies
University of Idaho Bulletin
University of Idaho School of Forestry Bulletin
University of Iowa Monographs
University of Iowa Studies in Natural History
University of Kansas Science Bulletin
University of Maine Studies
University of Michigan Museum of Zoology Miscellaneous Publications
University of Missouri Bulletin Science Series
University of Missouri Studies Science Series
University of Nevada Studies
University of Oklahoma Research Bulletin
University Studies of the University of Nebraska
University of Texas Bulletin Scientific Series
University of Wisconsin Studies in Science
U. S. Biological Survey Bulletin
U. S. Department of Agriculture Bulletins
U. S. Department of Agriculture Department Circular
U. S. Department of Agriculture Farmers Bulletin
U. S. Department of Agriculture Yearbook
Utah Agricultural Experiment Station Bulletin
Utah Agricultural Experiment Station Circular
Vermont Agricultural Experiment Station Bulletin
Vermont Agricultural Experiment Station Circular
Veterinary Medicine
Virginia Agricultural Experiment Station Annual Report
Virginia Agricultural Experiment Station Bulletin
Virginia Agricultural Experiment Station Technical Bulletin
Virginia Polytechnic Institute Extension Bulletin
Virginia State Forester Administrative Report
Virginia State Forester Bulletin
Virginia State Forester Forestry Leaflets
Virginia Truck Experiment Station Bulletin
Washington [State] Agricultural Experiment Station Bulletin
Washington [State] Agricultural Experiment Station Popular Bulletin
Washington University Studies Science Series
Western Druggist
Wisconsin Agricultural Experiment Station Bulletin
Wisconsin Agricultural Experiment Station Research Bulletin
Wisconsin Horticulture
World Agriculture
Wyoming Agricultural Experiment Station Annual Report
Wyoming Agricultural Experiment Station Bulletin

PHILIPPINE ISLANDS

Bureau of Agriculture, [Philippine Islands] Bulletin
Bureau of Forestry [Philippine Islands] Bulletin
Bureau of Forestry [Philippine Islands] Circular
Bureau of Science [Philippine Islands] Publications
Leaflets of Philippine Botany
Philippine Agriculturist
Philippine Agricultural Review
Philippine Journal of Science

POLYNESIA

FIJI ISLANDS

Department of Agriculture, Fiji, Bulletin
Department of Agriculture, Fiji, Circular

HAWAII

Experiment Station Hawaiian Sugar Planters' Association Agricultural and Chemical Series Bulletin
Experiment Station, Hawaiian Sugar Planters' Association Botanical Series Bulletin
Experiment Station Hawaiian Sugar Planters' Association Pathological and Physiological Series Bulletin
Hawaii Agricultural Experiment Station Bulletin
Hawaii Agricultural Experiment Station Extension Bulletin
Hawaii Agricultural Experiment Station Press Bulletin
Hawaii Board of Agriculture and Forestry, Division of Forestry Botanical Bulletin
Hawaiian Forester and Agriculturist
Memoirs Bernice Pauahi Bishop Museum
Occasional Papers Bernice Pauahi Bishop Museum
Report of the Board of Commissioners of Agriculture and Forestry, Territory of Hawaii
Report of the Experiment Station, Hawaiian Sugar Planters' Association
Report of the Hawaii Agricultural Experiment Station

SOUTH AMERICA

ARGENTINA

Anales del Museo Nacional de Historia Natural Buenos Aires
Anales de la Sociedad Cientifica Argentina
Boletin de Agricultura de la Provincia de Buenos Aires
Boletin del Ministerio de Agricultura de la Nacion [Argentina]
Publicaciones de la Universidad de Tucuman
Revista Industrial y Agricola de Tucuman
Revista del Museo de La Plata
Revista de la Sociedad Rural de Córdoba [Argentina]
Surco

BRAZIL

Memorias do Instituto Oswaldo Cruz

BRITISH GUIANA

Journal of the Board of Agriculture, British Guiana

CHILE

Agricultor [Santiago]
Boletin de la Sociedad Agricola del Norte [Chile]

DUTCH GUIANA

Bulletin, Departement van Landbouw Suriname
Verslag Departement van Landbouw Suriname

ECUADOR

Boletin del Laboratorio Municipal de Guayaquil

URUGUAY

Anales del Museo Nacional de Montevideo
Boletin de la Comision Nacional de Fomento Rural [Uruguay]
Defensa Agricola [Uruguay]
Inspeccion Nacional de Ganaderia y Agricultura Boletin [Uruguay]

WEST INDIES

BRITISH WEST INDIES

Agricultural News [Barbados]
Bulletin of the Department of Agriculture, Jamaica
Bulletin of the Department of Agriculture, Trinidad and Tobago
Imperial Department of Agriculture for the West Indies Pamphlet
Journal of the Jamaica Agricultural Society
Proceedings of the Agricultural Society of Trinidad
Report on the Agricultural Department of Antigua
Report on the Agricultural Department, British Virgin Islands
Report on the Agricultural Department of Dominica
Report on the Agricultural Department, Grenada
Report on the Agricultural Department, Montserrat
Report on the Agricultural Department, St. Kitts-Nevis
Report on the Agricultural Department, St. Lucia
Report on the Agricultural Department, St. Vincent
Report of the Department of Agriculture, Barbados
Report on the Sugar Cane Experiments, Department of Agriculture, Barbados
Report on Sugar Cane Experiments, Leeward Islands
West Indian Bulletin

CUBA

Anales, Academia de Ciencias Médicas, Fisicas y Naturales de la Habana—Revista Cientifica
Estacion Experimental Agronomica [Cuba] Boletin
Estacion Experimental Agronomica [Cuba] Circular
Informe Anual Estacion Experimental Agronomica [Cuba]
Memorias, Sociedad Cubana de Historia Natural "Felipe Poey"
Revista de Agricultura, Comercio y Trabajo [Cuba]
Revista de la Facultad de Letras y Ciencias, Universidad de la Habana
Seccion de Sanidad Vegetal, Secretaria de Agricultura, Comercio y Trabajo [Cuba] Boletin
Seccion de Sanidad Vegetal, Secretaria de Agricultura, Comercio y Trabajo [Cuba] Circular
Seccion de Sanidad Vegetal Secretaria de Agricultura, Comercio y Trabajo [Cuba] Pamphlet

DOMINICAN REPUBLIC

Revista de Agricultura [Santo Domingo]

FRENCH WEST INDIES

Journal de la Station Agronomique de la Guadeloupe
Station Agronomique de la Guadeloupe Bulletin

PORTO RICO

Journal of the Department of Agriculture of Porto Rico
Porto Rico Agricultural Experiment Station Bulletin
Porto Rico Agricultural Experiment Station Circular
Revista de Agricultura de Puerto Rico

COLLABORATORS FOR BOTANICAL ABSTRACTS

ABRAMS, L. R.—*Leland Stanford Jr. Univ., Stanford Univ., Calif.*
ALLEN, C. E.—*Univ. of Wisconsin, Madison, Wis.*
AMIN, B.—*Agric. Res. Inst., Pusa, India.*
ANDERSON, MISS F. C.—*Indiana Univ., Bloomington, Ind.*
ANDERSON, H. W.—*Univ. of Illinois, Urbana, Ill.*
ANDERSON, J. P.—*Juneau Florists, Juneau, Alaska*
ANDERSON, P. J.—*Massachusetts Agric. Coll., Amherst, Mass.*
ARNY, A. C.—*Univ. of Minnesota, Univ. Farm, St. Paul, Minn.*
ARTSCHWAGER, E.—*Bur. of Plant Indust., Washington, D. C.*
ATANASOFF, D.—*Inst. voor Phytopath., Wageningen, The Netherlands.*
AUCHTER, E. C.—*Univ. of Maryland, College Park, Md.*

BAILEY, I. W.—*Bussey Inst., Jamaica Plain, Mass.*
BAKER, F. S.—*U. S. Forest Serv., Ogden, Utah.*
BAKKE, A. L.—*Iowa State Coll., Ames, Ia.*
BAL, S. M.—*Univ. of Calcutta, Calcutta, India*
BALL, C. R.—*Bur. of Plant Indust., Washington, D. C.*
BARKER, E. E.—*Univ. of Georgia, Athens, Ga.*
BARRETT, J. T.—*Citrus Exp. Sta., Riverside, Calif.*
BARTLETT, H. H.—*Univ. of Michigan, Ann Arbor, Mich.*
BEAL, J. M.—*Mississippi Agric. Coll., Agricultural College, Miss.*
BEATTIE, R. K.—*Bur. of Plant Indust., Washington, D. C.*
BEAUMONT, A. B.—*Massachusetts Agric. Coll., Amherst, Mass.*
BEAUVERIE, J.—*Univ. de Clermont, Clermont-Ferrand, France*
BENEDICT, H. M.—*Univ. of Cincinnati, Cincinnati, Ohio*
BERG, A.—*West Virginia Univ., Morgantown, W. Va.*
BERRY, E. W.—*Johns Hopkins Univ., Baltimore, Md.*
BERRY, J. B.—*State College of Agric., Athens, Ga.*
BESSEY, E. A.—*Michigan Agric. Coll., E. Lansing, Mich.*
BISBY, G. R.—*Manitoba Agric. Coll., Winnipeg, Manitoba*
BLAKE, S. F.—*Bur. of Plant Indust., Washington, D. C.*
BLODGETT, F. M.—*Cornell Univ., Ithaca, N. Y.*
BOERKER, R. H. D.—*7 Washington Ave., Kingston, N. Y.*
BONAZZI, A.—*Ohio Agric. Exp. Sta., Wooster, Ohio.*
BONNET, L. O.—*California Agric. Exp. Sta., Davis, Calif.*
BONNS, W. W.—*3534 Fall Creek Blvd., Indianapolis, Ind.*
BOSE, S. R.—*Carmichael Med. Coll., Calcutta, India*
BOYD, W. E.—*States Relations Serv., Washington, D. C.*
BRANNON, J. M.—*Univ. of Illinois, Urbana, Ill.*
BROOKS, MRS. S. C.—*U. S. Public Health Serv., Washington, D. C.*
BROWN, F. B. H.—*Bishop Mus., Honolulu, Hawaii*
BROWN, H. B.—*Mississippi Agric. Coll., Agricultural College, Miss.*
BRUCE, D.—*Univ. of California, Berkeley, Calif.*
BRUNER, S. C.—*Estac. Exp. Agron., Santiago de las Vegas, Cuba*
BUCHHOLZ, J. T.—*Univ. of Arkansas, Fayetteville, Ark.*
BURKILL, I. H.—*Botanic Gardens, Singapore, Straits Settlements*
BURLINGAME, L. L.—*Leland Stanford Jr. Univ., Stanford University, Calif.*
BURLISON, W. L.—*Univ. of Illinois, Urbana, Ill.*
BURNHAM, S.—*Cornell Univ., Ithaca, N. Y.*
BURNS, G. P.—*Univ. of Vermont, Burlington, Vt.*
CADY, L.—*Univ. of Minnesota, Univ. Farm, St. Paul, Minn.*
CARRIER, L.—*Bur. of Plant Indust., Washington, D. C.*
CARSNER, E.—*Citrus Exp. Sta., Riverside, Calif.*
CASH, MISS E. K.—*Bur. of Plant Indust., Washington, D. C.*
CHAMBERLAIN, E. B.—*Sullivant Moss Soc., New York, N. Y.*
CHANDLER, W. H.—*Cornell Univ., Ithaca, N. Y.*
CHAPMAN, G. H.—*Massachusetts Agric. Exp. Sta., Amherst, Mass.*
CHEN, C. C.—*Tsing Hua Coll., Peking, China.*
CHRYSLER, M. A.—*Univ. of Maine, Orono, Me.*
CHURCH, MISS M.—*Bur. of Chem., Washington, D. C.*
CLARK, O. L.—*Massachusetts Agric. Coll., Amherst, Mass.*
CLUM, H.—*Cornell Univ., Ithaca, N. Y.*
COHN, P.—*N. Y. Biol. Lab., New York, N. Y.*
COKER, W. C.—*Univ. of North Carolina, Chapel Hill, N. C.*
COLE, L.—*Univ. of Wisconsin, Madison, Wis.*
COLLEY, R. R.—*Bur. of Plant Indust., Washington, D. C.*
CONARD, H. S.—*Grinnell Coll., Grinnell, Ia.*
COOK, M. T.—*Rutgers Coll., New Brunswick, N. J.*
COOLEY, J. S.—*Bur. of Plant Indust., Washington, D. C.*
COONS, G. H.—*Michigan Agric. Coll., E. Lansing, Mich.*
COULTER, S.—*Purdue Univ., Lafayette, Ind.*
COWLES, H. C.—*Univ. of Chicago, Chicago, Ill.*
CUNNINGHAM, G. C.—*Dominion Exp. Farms, Fredericton, New Brunswick*
CURTIS, O. F.—*Cornell Univ., Ithaca, N. Y.*
CURTIS, R.—*Cornell Univ., Ithaca, N. Y.*

DADANT, M. G.—*Hamilton, Ill.*
DANA, S. T.—*Forest Commissioner, Augusta, Me.*
DARLING, C. A.—*Allegheny Coll., Meadville, Pa.*
DASH, J. S.—*Dept. of Agric., Ottawa, Canada.*
DAVIS, A. R.—*Univ. of California, Berkeley, Calif.*
DAVIS, E. G.—*Cornell Univ., Ithaca, N. Y.*
DAY, W. B.—*Univ. of Illinois, School of Pharm., Chicago, Ill.*
DENNISTON, R. H.—*Univ. of Wisconsin, Madison, Wis.*
DETLEFSEN, J. A.—*Univ. of Illinois, Urbana, Ill.*
DETMERS, MISS F.—*Ohio Agric. Exp. Sta., Wooster, Ohio.*
DICKSON, B. T.—*MacDonald Coll., Quebec, Canada*
DICKSON, J. G.—*Univ. of Wisconsin, Madison, Wis.*
DIEHL, W. W.—*Bur. of Plant Indust., Washington, D. C.*
DODGE, C. W.—*Harvard Univ., Cambridge, Mass.*
DOIDGE, MISS E. M.—*Div. of Bot., Pretoria, South Africa*
DORSEY, H.—*Connecticut Agric. Coll., Storrs, Conn.*
DRECHSLER, C.—*Brooklyn Bot. Gard., Brooklyn, N. Y.*
DRUCE, G. C.—*Yardly Lodge, Crick Rd., Oxford, England*
DUDGEON, W.—*Ewing Christian Coll., Allahabad, India*
DUGGAR, B. M.—*Missouri Bot. Gard., St. Louis, Mo.*
DUNGAN, G. H.—*Univ. of Illinois, Urbana, Ill.*
DUNN, M. S.—*Philadelphia Coll. of Pharm., Philadelphia, Pa.*
DYNES, O. W.—*Univ. of Tennessee, Knoxville, Tenn.*

EAMES, A. J.—*Cornell Univ., Ithaca, N. Y.*
EASTHAM, J. W.—*Court House, Vancouver, B. C.*
ECKERSON, MISS S.—*Univ. of Chicago, Chicago, Ill.*
EDGERTON, C. W.—*Louisiana Agric. Exp. Sta., Baton Rouge, La.*
EIKENBERRY, W. L.—*Univ. of Kansas, Lawrence, Kans.*
ELLIOTT, J. A.—*Univ. of Arkansas, Fayetteville, Ark.*

Emerson, R. A.—*Cornell Univ., Ithaca, N. Y.*
Emig, W. H.—*Univ. of Pittsburgh, Pittsburgh, Pa.*
Engelhardt, H.—*Sharp & Dohme, Baltimore, Md.*
Essary, S. H.—*Univ. of Tennessee, Knoxville, Tenn.*
Evans, A. W.—*Yale Univ., New Haven, Conn.*

Farr, C. H.—*Univ. of Iowa, Iowa City, Ia.*
Farr, Mrs. C. H.—*Univ. of Iowa, Iowa City, Ia.*
Faull, J. H.—*Univ. of Toronto, Toronto, Canada*
Ferdinandsen, C.—*Statens Plantepatol. Forsog, Lyngby, Denmark*
Fink, B.—*Miami Univ., Oxford, Ohio*
Fitzpatrick, H. M.—*Cornell Univ., Ithaca, N. Y.*
Fitzpatrick, T. J.—*Univ. of Nebraska, Lincoln, Neb.*
Föex, E.—*Sta. de Path. Veg., Paris, France*
Folsom, D.—*Maine Agric. Exp. Sta., Orono, Me.*
Freeman, G. F.—*Univ. of Arizona, Tucson, Ariz.*
Freiberg, G. H.—*Commercial Solvents Co., Terre Haute, Ind.*
Fromme, F. D.—*Virginia Polytech. Inst., Blacksburg, Va.*
Frost, H. B.—*Citrus Exp. Sta., Riverside, Calif.*
Frye, T. C.—*Univ. of Washington, Seattle, Wash.*
Fuller, G. D.—*Univ. of Chicago, Chicago, Ill.*

Gager, C. S.—*Brooklyn Bot. Gard., Brooklyn, N. Y.*
Gardner, M. W.—*Purdue Agric. Exp. Sta., West Lafayette, Ind.*
Gardner, W.—*Alabama Polytech. Inst., Auburn, Ala.*
Gates, F. C.—*Kansas Agric. Coll., Manhattan, Kans.*
Gathercoal, E. N.—*Univ. of Illinois, School of Pharm., Chicago, Ill.*
Gerry, Miss E.—*Univ. of Wisconsin, Madison, Wis.*
Gershoy, A.—*Columbia Univ., New York, N. Y.*
Giddings, N. J.—*West Virginia Univ., Morgantown, W. Va.*
Gilbert, E. M.—*Univ. of Wisconsin, Madison, Wis.*
Gilbert, W. W.—*Bur. of Plant Indust., Washington, D. C.*
Gilkey, Miss H. M.—*Oregon Agric. Coll., Corvallis, Ore.*
Gilman, J. C.—*Iowa Agric. Exp. Sta., Ames, Ia.*
Gleason, H. A.—*New York Bot. Gard., New York, N. Y.*
Gloyer, M.—*New York Agric. Exp. Sta., Geneva, N. Y.*
Gorman, M. W.—*Forest. Bldg., Portland, Ore.*
Gourley, J. H.—*Ohio Agric. Exp. Sta., Wooster, Ohio*
Gram, E.—*Statens Plantepatol. Forsog., Lyngby, Denmark*
Graves, A. H.—*Yale Univ., New Haven, Conn.*
Greenman, J. M.—*Missouri Bot. Gard., St. Louis, Mo.*
Griggs, R. F.—*Nation. Geog. Soc., Washington, D. C.*
Grimm, J. J.—*Carroll Coll., Waukesha, Wis.*
Grover, F. O.—*Oberlin Coll., Oberlin, Ohio*
Gundersen, A.—*Brooklyn Bot. Gard., Brooklyn, N. Y.*
Güssow, H. T.—*Central Exp. Farm, Ottawa, Canada.*

Haas, A. R. C.—*Citrus Exp. Sta., Riverside, Calif.*
Haber, Mrs. V. R.—*123 Newbern Ave., Raleigh, N. C.*
Halma, F. F.—*Citrus Exp. Sta., Riverside, Calif.*
Hampton, H. C.—*Univ. of Wisconsin, Madison, Wis.*
Hansen, A. A.—*Bur. of Plant Indust., Washington, D. C.*
Harlan, H. V.—*Bur. of Plant Indust., Washington, D. C.*
Harper, R. M.—*College Point, N. Y.*
Harris, J. A.—*Cold Spring Harbor, N. Y.*
Harshberger, J. W.—*Univ. of Pennsylvania, Philadelphia, Pa.*
Harter, L. L.—*Bur. of Plant Indust., Washington, D. C.*
Hartley, C.—*Inst. voor. Plantenzier, Buitenzorg, Java.*
Hartwell, B. L.—*Rhode Island Agric. Exp. Sta., Kingston, R. I.*
Hayes, H. K.—*Univ. of Minnesota, Univ. Farm, St. Paul, Minn.*
Heald, F. D.—*Washington State Coll., Pullman, Wash.*
Heinicke, A. J.—*Cornell Univ., Ithaca, N. Y.*
Hessler, L. R.—*Univ. of Tennessee, Knoxville, Tenn.*
Hibbard, R. P.—*Michigan Agric. Coll., E. Lansing, Mich.*
Higgins, B. B.—*Georgia Exp. Sta., Experiment, Ga.*
Hitchcock, A. S.—*Bur. of Plant Indust., Washington, D. C.*
Hjort, A. M.—*Yale Univ., New Haven, Conn.*
Hofmann, J. V.—*U. S. Forest Serv., Stabler, Wash.*
Hogstad, A., Jr.—*South Dakota State Coll., Brookings, S. Dak.*
Holman, R. M.—*Univ. of California, Berkeley, Calif.*
Hooker, H., Jr.—*Univ. of Missouri, Columbia, Mo.*
Hopkins, E. F.—*Univ. of Missouri, Columbia, Mo.*
Hori, S.—*Imp. Central Exp. Sta., Tokyo, Japan*
Howe, F. B.—*Cornell Univ., Ithaca, N. Y.*
Howe, M. A.—*New York Bot. Gard., New York, N. Y.*
Howe, R. H., Jr.—*Thoreau Mus. Nat. Hist., Cambridge, Mass.*
Hutchins, L. N.—*Johns Hopkins Univ., Baltimore, Md.*
Hutchinson, A. H.—*Univ. of British Columbia, Vancouver, B. C.*

Ikeno, S.—*Imp. Univ. of Tokyo, Tokyo, Japan*
Illick, J. S.—*Dept. of Forest., Harrisburg, Pa.*

Jackson, H. S.—*Indiana Agric. Exp. Sta., W. Lafayette, Ind.*
Jagger, I. C.—*Sanford, Fla.*
Jennings, O. E.—*Carnegie Mus., Pittsburgh, Pa.*
Jennison, H. M.—*Montana Agric. Exp. Sta., Bozeman, Mont.*
Johnson, D. S.—*Johns Hopkins Univ., Baltimore, Md.*
Johnson, T. C.—*Virginia Truck Exp. Sta., Norfolk, Va.*
Johnston, E. S.—*Univ. of Maryland, College Park, Md.*
Jones, D. F.—*Connecticut Agric. Exp. Sta., New Haven, Conn.*

Keenan, G. L.—*Bur. of Chem., Washington, D. C.*
Kelly, J.—*Pennsylvania State Coll., State College, Pa.*
Kempton, F. E.—*Bur. of Plant Indust., Washington, D. C.*
Kezer, A.—*Colorado Agric. Coll., Fort Collins, Colo.*
Kiesselbach, T. A.—*Nebraska Agric. Exp. Sta., Lincoln, Neb.*
Knudson, L.—*Cornell Univ., Ithaca, N. Y.*
Kofoid, C. A.—*Univ. of California, Berkeley, Calif.*
Korstian, C. F.—*U. S. Forest Serv., Ogden, Utah*
Kraus, E. J.—*Univ. of Wisconsin, Madison, Wis.*

Larsen, J. A.—*U. S. Forest Serv., Priest River, Idaho*
Laufer, B.—*Field Mus. Nat. Hist., Chicago, Ill.*
Laughlin, H. H.—*Cold Spring Harbor, N. Y.*
Lauritzen, J. I.—*Bur. of Plant Indust., Washington, D. C.*
Lawrence, W. E.—*Oregon Agric. Coll., Corvallis, Ore.*
Leach, J. G.—*Univ. of Minnesota, Minneapolis, Minn.*
Lee, H. N.—*Hammermill Paper Co., Erie, Pa.*
Leighty, C. E.—*Bur. of Plant Indust., Washington, D. C.*
Levine, M.—*1646 University Ave., New York, N. Y.*
Levine, M. N.—*Univ. of Minnesota, Univ. Farm, St. Paul, Minn.*
Lewis, F. J.—*Univ. of Alberta, Edmonton, Canada*
Lewis, I. F.—*Univ. of Virginia, University, Va.*
Libby, Mrs.—*Ithaca, N. Y.*
Livingston, B. E.—*Johns Hopkins Univ., Baltimore, Md.*
Lovell, J. H.—*Waldoboro, Me.*
Lowdermilk, W. C.—*U. S. Forest Serv., Missoula, Mont.*
Luckett, J. D.—*New York Agric. Exp. Sta., Geneva, N. Y.*
Ludwig, C. A.—*Clemson Agric. Coll., Clemson College, S. C.*
Lund, F. P.—*States Relations Serv., Washington, D. C.*

LUTE, MISS A. M.—*Colorado Agric. Coll., Fort Collins, Colo.*
LYON, C. J.—*Dartmouth Coll., Hanover, N. H.*

MACDANIELS, L. H.—*Cornell Univ., Ithaca, N. Y.*
MCDOUGALL, W. B.—*Univ. of Illinois, Urbana, Ill.*
MCHATTON, T. H.—*Univ. of Georgia, Athens, Ga.*
MACKAY, A. H.—*Education Office, Halifax, Nova Scotia*
MCKAY, M. B.—*Oregon Agric. Coll., Corvallis, Ore.*
MANEVAL, W. E.—*Univ. of Missouri, Columbia, Mo.*
MANNS, T. F.—*Delaware Agric. Exp. Sta., Newark, Del.*
MARSH, C. D.—*Bur. of Animal Indust., Washington, D. C.*
MARTIN, G. H.—*Bur. of Plant Indust., Washington, D. C.*
MARTIN, J. N.—*Iowa State Coll., Ames, Ia.*
MASSEY, A. B.—*Virginia Polytech. Inst., Blacksburg, Va.*
MASSEY, L. M.—*Cornell Univ., Ithaca, N. Y.*
MAST, S. O.—*Johns Hopkins Univ., Baltimore, Md.*
MATZ, J.—*Insular Exp. Sta., Rio Piedras, Porto Rico*
MAXON, W. R.—*Smithsonian Inst., Washington, D. C.*
MELCHERS, L. E.—*Kansas State Agric. Coll., Manhattan, Kans.*
MERRILL, E. D.—*Bur. of Sci., Manila, P. I.*
METCALF, W.—*Univ. of California, Berkeley, Calif.*
†MICHEELS, H.—*Univ. de Liége, Liége, Belgium*
MILLER, F. A.—*Eli Lilly & Co., Greenfield, Ind.*
MINNS, MISS L. A.—*Cornell Univ., Ithaca, N. Y.*
MIYABE, K.—*Hokkaido Imp. Univ., Sapporo, Japan*
MIYAKE, K.—*Imp. Univ. of Tokyo, Tokyo, Japan*
MOORE, B.—*925 Park Ave., New York, N. Y.*
MORGAN, T. H.—*Columbia Univ., New York, N. Y.*
MORRIS, H. E.—*Montana Exp. Sta., Bozeman, Mont.*
MORSE, W. J.—*Bur. of Plant Indust., Washington, D. C.*
MUNN, M. T.—*New York Agric. Exp. Sta., Geneva, N. Y.*
MUNNS, E. N.—*U. S. Forest Serv., San Francisco, Calif.*
MUNZ, P. A.—*Pomono Coll., Claremont, Calif.*
MURNEEK, A. E.—*Oregon Agric. Coll., Corvallis, Ore.*
MYERS, C. E.—*Pennsylvania State Coll., State College, Pa.*

NABOURS, R. K.—*Kansas State Agric. Coll., Manhattan, Kans.*
NANZ, R. S.—*Cornell Univ., Ithaca, N. Y.*
NELSON, J. C.—*Salem High School, Salem, Ore.*
NICHOLS, G. E.—*Yale Univ., New Haven, Conn.*
NICHOLS, MISS S. P.—*Oberlin Coll., Oberlin, Ohio*

OLSON, O.—*Amer. Genetic Assoc., Washington, D. C.*
ORTON, C. R.—*Pennsylvania State Coll., State College, Pa.*
OSBORN, T. G. B.—*Univ. of Adelaide, Adelaide, Australia*
OTIS, C. H.—*Western Reserve Univ., Cleveland, Ohio*
OVERHOLSER, E. L.—*Univ. of California, Berkeley, Calif.*
OVERHOLTS, L. O.—*Pennsylvania State Coll., State College, Pa.*
OVERTON, J. B.—*Univ. of Wisconsin, Madison, Wis.*
OWENS, C. E.—*Oregon Agric. Coll., Corvallis, Ore.*

PACE, MISS L.—*Baylor Univ., Waco, Tex.*
PALMER, E. F.—*Hort. Exp. Sta., Vineland, Ontario*
PAMMEL, L. H.—*Iowa State Coll., Ames, Ia.*
PAYSON, E. B.—*Univ. of Wyoming, Laramie, Wyo.*
PEARSON, G. A.—*U. S. Forest Serv., Albuquerque, N. Mex.*
PEIRCE, G. J.—*Leland Stanford Jr. Univ., Stanford University, Calif.*
PELLETT, F. C.—*"Amer. Bee Jour.," Hamilton, Ill.*
PENDLETON, R. L.—*Agric. Dept. Gwalior State, India*
PETRY, E. J.—*South Dakota State Coll., Brookings, S. Dak.*
PICKETT, F. L.—*Washington State Coll., Pullman, Wash.*
PIETERS, A. J.—*Bur. of Plant Indust., Washington, D. C.*
PIPER, C. V.—*Bur. of Plant Indust., Washington, D. C.*
POOL, R. J.—*Univ. of Nebraska, Lincoln, Neb.*
POOLE, J. P.—*Bussey Inst., Forest Hills, Mass.*
POTTER, G. F.—*New Hampshire Agric. Coll., Durham, N. H.*
POVAH, A. H. W.—*Alabama Polytech. Inst., Auburn, Ala.*
PRAEGER, W. E.—*Kalamazoo Coll., Kalamazoo, Mich.*
PRUCHA, M. J.—*Illinois Agric. Exp. Sta., Urbana, Ill.*
PULLING, H. E.—*Wellesley Coll., Wellesley, Mass.*

QUANJER, H. M.—*Inst. voor Phytopath., Wageningen, The Netherlands*

RANDS, R. D.—*Inst. voor Plantenziek., Buitenzorg, Java*
RANKIN, W. H.—*Field Lab. of Plant Path., St. Catherines, Canada*
RAY, G. B.—*Harvard Univ., Cambridge, Mass.*
REDDICK, D.—*Cornell Univ., Ithaca, N. Y.*
REED, H. S.—*Univ. of California, Berkeley, Calif.*
REHDER, A.—*Arnold Arboretum, Jamaica Plain, Mass.*
REYNOLDS, E.—*North Dakota Agric. Coll., Agricultural College, N. Dak.*
RICHARDS, B. L.—*Utah Agric. Exp. Sta., Logan, Utah*
RICKER, P. L.—*Bur. of Plant Indust., Washington, D. C.*
RIGG, G. B.—*Univ. of Washington, Seattle, Wash.*
ROBBINS, W. J.—*Univ. of Missouri, Columbia, Mo.*
ROBBINS, W. W.—*Great Western Sugar Co., Longmont, Colo.*
ROBERTS, J. W.—*Bur. of Plant Indust., Washington, D. C.*
RORER, J. B.—*Asoc. de Agricultores del Ecuador, Guayaquil, Ecuador*
ROSE, J. N.—*Smithsonian Inst., Washington, D. C.*
ROSEN, H. R.—*Arkansas Agric. Exp. Sta., Fayetteville, Ark.*
ROSENKRANS, D. B.—*Clemson Agric. Coll., Clemson College, S. C.*
RUMBOLD, MISS C.—*Bur. of Plant Indust., Washington, D. C.*
RYDBERG, P. A.—*New York Bot. Gard., New York, N. Y*

SAUNDERS, A. P.—*Amer. Peony Soc., Clinton, N. Y.*
SCHAFFNER, J. H.—*Ohio State Univ., Columbus, Ohio*
SCHERER, N. W.—*Univ. of California, Berkeley, Calif.*
SCHERTZ, F. M.—*Bur. of Plant Indust., Washington, D. C.*
SCHMITZ, H.—*Univ. of Idaho, Moscow, Idaho.*
SCHNEIDER, C.—*Charlottenburg 4, Bismarck Strasse 19, Berlin, Germany.*
SCHRAMM, J. R.—*Cornell Univ., Ithaca, N. Y.*
SEARS, P. B.—*Univ. of Nebraska, Lincoln, Neb.*
SETCHELL, W. A.—*Univ. of California, Berkeley, Calif.*
SHAPOVALOV, M.—*Bur. of Plant Indust., Washington, D. C*
SHARP, L. W.—*Cornell Univ., Ithaca, N. Y.*
SHAW, MISS E. E.—*Brooklyn Bot. Gard., Brooklyn, N. Y.*
SHAW, J. K.—*Massachusetts Agric. Coll., Amherst, Mass.*
SHEAR, C. L.—*Bur. of Plant Indust., Washington, D. C.*
SHERBAKOFF, C. D.—*Univ. of Tennessee, Knoxville, Tenn.*
SHERFF, E. E.—*6543 Drexell Ave., Chicago, Ill.*
SHIMEK, B.—*Univ. of Iowa, Iowa City, Ia.*
SHIRK, C. J.—*Nebraska Wesleyan Univ., University Place, Neb.*
SHULL, A. F.—*Univ. of Michigan, Ann Arbor, Mich.*
SHULL, C.—*Univ. of Chicago, Chicago, Ill.*
SHULL, G. H.—*Princeton Univ., Princeton, N. J.*
SINNOTT, E. W.—*Connecticut Agric. Coll., Storrs, Conn.*
SKINNER, J. J.—*Bur. of Plant Indust., Washington, D. C.*
SMITH, L. H.—*Univ. of Illinois, Urbana, Ill.*

† Deceased

SPARHAWK, W. N.—*U. S. Forest Serv., Washington, D. C.*
STADLER, L. J.—*Univ. of Missouri, Columbia, Mo.*
STAKMAN, E. C.—*Univ. of Minnesota, Univ. Farm, St. Paul, Minn.*
STANFORD, E. E.—*Western Reserve Univ., Cleveland, Ohio*
STERLING, C. M.—*Univ. of Kansas, Lawrence, Kans.*
STEVENS, O. A.—*North Dakota Agric. Coll., Agricultural College, N. Dak.*
STEVENS, W. C.—*Univ. of Kansas, Lawrence, Kans.*
STEVENSON, J. A.—*Fed. Hort. Bd., Washington, D. C.*
STEWART, F. C.—*New York Agric. Exp. Sta., Geneva, N. Y.*
STOKEY, MISS A. G.—*Mt. Holyoke Coll., South Hadley, Mass.*
STOUT, A. P.—*New York Bot. Gard., New York, N. Y.*
STUART, W.—*Bur. of Plant Indust., Washington, D. C.*
SUMMER, F. B.—*Scripps Inst., La Jolla, Calif.*
SWEETSER, A. R.—*Univ. of Oregon, Eugene, Ore.*

TAMMES, MISS T.—*Univ. of Groningen, Groningen, The Netherlands*
TAYLOR, W. R.—*Univ. of Pennsylvania, Philadelphia, Pa.*
THELIN, G.—*Massachusetts Agric. Coll., Amherst, Mass.*
THOMAS, R. C.—*Ohio Agric. Exp. Sta., Wooster, Ohio.*
THOMPSON, H. C.—*Cornell Univ., Ithaca, N. Y.*
THOMPSON, W. P.—*Univ. of Saskatchewan, Saskatoon, Canada.*
THOMSON, R. B.—*Univ. of Toronto, Toronto, Canada*
TIFFANY, L. H.—*Ohio State Univ., Columbus, Ohio*
TILLOTSON, C. R.—*U. S. Forest Serv., Washington, D. C.*
TOOLE, E.—*Univ. of Wisconsin, Madison, Wis.*
TOWNSEND, C. O.—*Bur. of Plant Indust., Washington, D.C.*
TRANSEAU, E. N.—*Ohio State Univ., Columbus, Ohio.*

UPHOF, J. C. TH.—*630 Prinsengracht, Amsterdam, The Netherlands*

VALLEAU, W. D.—*Univ. of Kentucky, Lexington, Ky.*
VINALL, H. N.—*Bur. of Plant Indust., Washington, D. C.*

WAKSMAN, S.—*Rutgers Coll., New Brunswick, N. J.*
WALDRON, L. R.—*North Dakota Agric. Coll., Agricultural College, N. Dak.*
WALKER, MISS E. R.—*Univ. of Nebraska, Lincoln, Neb.*
WALKER, MISS L. B.—*Univ. of Nebraska, Lincoln, Neb.*
WALLER, A. E.—*Ohio State Univ., Columbus, Ohio*
WATERMAN, W. G.—*Northwestern Univ., Evanston, Ill.*
WEAVER, J. A.—*Univ. of Nebraska, Lincoln, Neb.*
WEIDMAN, R. H.—*U. S. Forest Serv., Portland, Ore.*
WEIMER, J. L.—*Bur. of Plant Indust., Washington, D. C.*
WEISS, F.—*Bur. Plant Indust., Washington, D. C.*
WELCH, D. S.—*Cornell Univ., Ithaca, N. Y.*
WENIGER, MISS W.—*North Dakota Agric. Coll., Agricultural College, N. Dak.*
WESTERDIJK, MISS J.—*Phytopath. Lab., "Willie Commelin Scholten", Baarn, The Netherlands*
WESTGATE, J. M.—*Hawaii Agric. Exp. Sta., Honolulu, Hawaii*
WESTVELD, M.—*U. S. Forest Serv., Albuquerque, N. Mex.*
WHITE, O. E.—*Brooklyn Bot. Gard., Brooklyn, N. Y.*
WIANCKO, A. T.—*Purdue Univ., Lafayette, Ind.*
WIEGAND, K. M.—*Cornell Univ., Ithaca, N. Y.*
WIGGINS, C. C.—*Univ. of Nebraska, Lincoln, Neb.*
WIGGANS, R. G.—*Cornell Univ., Ithaca, N. Y.*
WILCOX, E. M.—*1015 Terminal Bldg., Lincoln, Neb.*
WILLEY, MISS F.—*Iowa Agric. Exp. Sta., Ames, Ia.*
WILSON, C. L.—*Cornell Univ., Ithaca, N. Y.*
WILSON, O. T.—*Univ. of Cincinnati, Cincinnati, Ohio*
WOLF, F. A.—*North Carolina Agric. Exp. Sta., W. Raleigh, N. C.*
WYLIE, R. B.—*Univ. of Iowa, Iowa City, Ia.*

YAMANOUCHI, S.—*Tokyo Teachers' Coll., Tokyo, Japan*
YAMPOLSKY, C.—*A. V. R. O. S., Medan, Sumatra*
YOUNG, V. H.—*Univ. of Idaho, Moscow, Idaho*
YOUNGKEN, H. W.—*Philadelphia Coll. Pharm., Philadelphia, Pa.*

ZELLER, S. M.—*Oregon Agric. Coll., Corvallis, Ore.*
ZIEGLER, E. A.—*State Forest Acad., Mont Alto, Pa.*
ZON, R.—*U. S. Forest Serv., Washington, D. C.*

INDEX TO AUTHORS' NAMES IN VOLUME X

(References are to entry numbers; an asterisk before a number signifies that the entry referred to is by citation only)

Acree, S. F. (Mellon R. R., Acree, P. M. Avery, and E. A. Slagle). 262.
Acree, S. F., R. R. Mellon, P. M. Avery, and E. A. Slagle. 311.
Adams, C. C. (Moore, B., Adams, T. L. Hankinson, G. P. Burns, and N. Taylor). *985.
Addis, J. M. 1099, 1183.
Adolph, E. F., and R. M. Ferry. 1957.
Agar, M. (Stout, M., and Agar). 164.
Agelasto, A. M. 386.
Agharkar, S. 462.
Agrelius, F. U. G. 418, 577.
Ahlefeldt-Laurvig, C. W. (Götsche, O., F. Kiörbie, C. Bistrup, and Ahlefeldt-Laurvig). 51.
Albertoni, I., and G. Bosinelli. 1929.
Albertson, A. O. 1385.
Alexander, J. 1919.
Allen, E. J. 592.
Allen, R. F. 1285.
Allen, R. H. 150.
Allen, W. E. 948.
Allen, W. J. *151, 1676.
Allen, W. J., and R. G. Bartlett. *1100.
Allorge, A. P. 601.
Alps, H. F., and O. H. Hammonds. *949.
Altenburg, E. (Muller, H. J., and Altenburg). *1043.
Alverdes, F. *511, *512, *513, *514.
Alviella, F. G. d'. 1611.
Alway, F. J., P. R. McMillen, and C. O. Rost. 1978.
Ames, O. 816.
Anastasia, G. E. 72.
Anderson, R. J. 1930.
Andre, H. 767.
Andrews, A. LeR. 1533.
Andrews, E. F. 463.
Angelis d'Ossat, G. de. 1324, 1979.
Anthony, S. (Harlan, H. V., and Anthony). 93.
Aoi, K. 1875.
Appleman, C. O., and S. V. Eaton. 303.
Arana, M. de 1455.
Arber, A. *331, *646, 1534, 1816.
Archer, E. 44, *45.
Armin, von. 1456.
Army, A. C. 1140.
Arnell, H. W. 1535.
Arnold, H. H. 1612.
Arnold, R. (Bridel, M., and Arnold). 1932.
Arthur, J. C. 25, 1273.
Artschwager, E., and E. M. Smiley. 1438.
Ashe, W. W. 2011.
Ashton, P. J. *1601.
Ashworth, J. H. *849.
Aston, B. C. 864.
Astre, G. *950.
Atkins, W. R. G. 553.
Aumiot, J. 1034.
Avery, P. M. (Acree, S. F., R. R. Mellon, Avery, and E. A. Slagle). 311.
Avery, P. M. (Mellon, R. R., S. F. Acree, Avery, and E. A. Slagle). 262.
Ayers, S. H., P. Rupp, and C. S. Mudge. 1250.
Ayyangar, M. O. P. 583.

B. *734, *780, 1613.
Babcock, E. B. 73, 923.
Babe, E. *1439.
Bailey, C. H. 286.
Bailey, D. L. (Fraser, W. P., and Bailey.) 1282.
Bailey, J. W. 477.
Bailey, L. H. 336.
Bailhache, G. (Rivière, G., and Bailhache). *1112.
Bailly, P. (Sartory, A., and Bailly). 307.
Baines, E. A. *1976.
Baker, E. 1457.
Bakke, A. L., W. A. Radspinner, and T. J. Maney. 152.
Ballard, C. W. *1602.
Bally, W. 1035.
Balme, J. 1458. 1751.
Bancroft, W. D. 312, 380, *735, *757, *850.
Bandi, W. (Volkart, A., A. Grisch, and Bandi). 917.
Baño, J. de. 1794, 1806, 2053.
Barnhart, J. H. 811.
Barnhart, P. D. 1141.
Barnola, J. M. de. 478.
Barrett, L. A. *1614.
Barthe, A. E. 207.
Bartlett, H. H. (Sando, C. E., and Bartlett). 1942.
Bartlett, R. G. (Allen, W. J., and Bartlett). *1100.
Bartos, W. 515.
Bataille, F. 1204.
Bataillon, C. 1677.
Bateson, W. 177, 516, 1678.
Bather, F. A. 415.
Baudyš, E. 722.
Bauer, F. C. 1367.
Baur, E. *1043.
Baxter, S. N. 1142, 1143.
Beach, F. H. 702.
Beach, W. S. *208, 1876.
Bean, W. J. 479.
Beath, O. A. 1905, 1906, 1907.
Beauvard, G. *822.
Beauverie, J. 444, 1871.
Beauvisage, M. *841.

Bechhold, H. *734.
Beckley, V. A. *1983.
Beguinot, A. *1563.
Behrens. *1036.
Behrens, J. 616.
Bell, W. H. 1931.
Belling, J. (Blakeslee, A. F., Belling, and M. E. Farnham). *1043.
Benaiges de Arís, C. 1752.
Bennet, I. D. *1144.
Bennett, A. 1395, 2012.
Bennett, C. W. (Young, H. C., and Bennett). *672.
Benoist, R. 801, 1396, 1397, 1398.
Benson, C. H. 1753.
Benson, C. H. (Georgeson, C. C., and Benson). 1762.
Bentley, J., Jr. (Recknagel, A. B., and Bentley). 43.
Bernatsky, J. 703.
Berry, E. W. 634, 635, 1263.
Berry, R. A., and D. G. O'Brien. 1679.
Bertolo, P. *1339, 1340.
Bertrand, G., and P. Thomas. 255.
Bethel, E. *184.
Bethel, E., and G. B. Posey. *673.
Betscher, C. 1178.
Bettinger, and Delaval. *1359.
Betts, M. W. 1817, 1818.
Bevan, W. 865, 866, 867, 868, 1010, 1101, 1102, 1145, 1179, 1330, 1440.
Bewley, W. F., and H. B. Hutchinson. 1251.
Bews, J. W. 467, 802, 979.
Bezssonoff, N. (Truffaut, G., and Bezssonoff). 320.
Bhatnagar, S. S. 790.
Bianchi, A. T. 1894.
Bibb, L. B. 297.
Bijl, P. A. van der. 1853.
Bioletti, F. T. 1103.
Bioret, G. *626.
Bippart, E. 387.
Birmingham, L. E. 554.
Birmingham, W. A. 209.
Bisby, G. R. *210, *228, 1303.
Bishop, E. (Burton, E. F., and Bishop). 736.
Bishop, O. F., J. Grantham, and M. J. Knapp. *1037.
Bistrup, C. (Götsche, O., F. Kiörbie, Bistrup, and C. W. Ahlefeldt-Laurvig). 51.
Blackman, F. F. 267.
Blackman, V. H. *252.
Blair, A. W. 1992.
Blair, A. W. (Lipman, J. G., and Blair). 1375.
Blair, E. C. (Williams, C. B., W. F. Pate, Blair, and R. W. Collett). 410.
Blair, R. J. 1304, 1305.
Blake, S. F. 337, 817, 818, 1399, 2013.
Blakeslee, A. F. 74, 517, *522, *523, 1038, 1041, *1043, 1680.
Blakeslee, A. F. (Harris, J. A., W. F. Kirkpatrick, Blakeslee, D. E. Warner, and L. E. Card). 1056.
Blakeslee, A. F., J. Belling, and M. E. Farnham *1043.
Blanc, J. (Dernby, K. G., and Blanc). 1962.
Blanck, E., and F. Preiss, 1980.
Blandenier, A. E. 518.
Blaringhem, L. 75, *432, 519, 520, 1039, 1040, 1092, 1681.
Blatter, E. and F. Hallberg. 338.
Blatter, E., F. Hallberg, and C. McCann. 819.
Bliss, A. J. 1682.
Block, A. 2.
Block, E. 1819.
Blodgett, F. M., and K. Fernow. *704.
Blossfeld, R. 1536.
Boas, S. 1947.
Bolton, E. 970.
Bonaparte, R. 1537.
Bonazzi, A. 1961.
Bondorff, K. A. (Weis, F. and Bondorff). 665, 1383.
Bonnier, G. 339, 464.
Bonvallet, E. 165.
Böös, G. 1820.
Bornemann, O. Lemmermann, Gerlach, and F. Riedel. 1459.
Bornemann, C. E. 1615.
Bosinelli, G. (Albertoni, I., and Bosinelli). 1929.
Botjes, J. O. (Quanjer, H. M., and Botjes). 1885.
Bottazzi, F. *851.
Boulenger, E. G. 1683.
Bourdot, H. 1205.
Bourdot, H., and A. Galzin. 1206.
Bourdot, H., and L. Maire. *1207.
Bourquelot, E., and Bridel. 278.
Boutwell, P. W. (Steenbock, H., M. T. Sell, and Boutwell). 1943.
Bovet, P. A. 1460, 1461, 1754.
Bowman, H. H. M. *941, 1684.
Breakwell, E. 869, 870, 871.
Breckenridge, J. E. 791.
Brewster, A. A. *465.
Bridel. (Bourquelot, E., and Bridel). 278.
Bridel, M., and R. Arnold. 1932.
Bridges, C. B. 76, 77, *1043, 1685.
Bridges, C. B. (Morgan, T. H., A. H. Sturtevant, and Bridges). 108.
Briggs, F. N. (Mackie, W. W., and Briggs). *237.
Briggs, G. E. (West, C., Briggs, and F. Kidd). 296.
Briggs, H. H. 78, 79.
Briquet, J. 178, 179.
Britten, J. 1538, 1539, 1540, 1541, 1542, 1543, 1544, 2014.
Britton, C. E. 1386.
Britton, E. G. 602.
Britton, N. L. 480.
Britton, N. L., and C. F. Millspaugh. *332, *1999.
Britton, N. L., and J. N. Rose. 340, 1400.
Broadbent, W. H. 674.
Brock, J. A. 1290.

Brock, W. S. 229.
Brockmann-Jerosch, H. 1545.
Broili, J. 1686.
Brooks, C. 555.
Brooks, F. T. 1687.
Brooks, M. M. 287, 288.
Brown, H. D. 572.
Brown, J. H. 1333.
Brown, N. C. 43, 1616.
Brown, N. E. 1400.
Brown, P. E. 872.
Browne, I. M. P. 1821.
Bruce, D. *46, 1011.
Brumpt, E. 1688.
Bruner, S. C. 1854, 1855. 1856.
Bruner, S. C. (Fortún, G. M., and Bruner). 1286.
Bruno, A. 1462.
Brunswick, H. 752.
Buchet, S., H. Chermezon, and F. Evrard. 1261.
Buckmaster, G. A. 1958.
Bucura, C. *536.
Buell, M. (Steenbock, H., M. T. Sell, and Buell). 1944.
Bugnon, P. 1281.
Bühler, A. 1012.
Buller, A. H. R. 1355.
Bunyard, E. A. 1546, 1755.
Burgess, K. E. 781.
Burkholder, C. L. *1146.
Burkill, I. H. 873, 1147, 1368.
Burns, G. P. *243.
Burns, G. P. (Moore, B., C. C. Adams, T. L. Hankinson, Burns, and N. Taylor). *985.
Burns, W., and P. G. Joshi. 1807.
Burns, W., and L. B. Kulkarni. 556.
Burton, E. F., and E. Bishop. 736.
Buscalioni, L., and G. Muscatello. 1401.
Busch, W. 1197.
Büsgen, M. 1868.
Butler, O. M. *1617.

C., G. H. *521.
C., J. 1547.
Caesar, L. *1325.
Caille, O., and H. Poisson. *1402.
Calvino, E. M. de. 1463.
Calvino, M. 3, 874, *875, *876, 877, 878, 879, 880, *1104, 1464, 1756.
Camp, W. B. 388.
Campbell, D. H. 180, 924.
Camus, A. 1403, 1404, 1405, 1406, 1407.
Canals, E. 1925.
Canfield, F. D., and A. G. Rios. 881.
Cannon, W. A. *951.
Card, L. E. (Harris, J. A., W. F. Kirkpatrick, A. F. Blakeslee, D. E. Warner, and Card). 1056.
Cardinell, H. A. 557.
Cardot, J. 1408.
Caron, von. 80.
Carothers, E. E. 81.
Carpentier, A. *636, 1847.
Carrero, J. O. (Gils, P. L., and Carrero). 1336.
Căruntu, D. 419.
Casale, L. 737, 738, 739.
Casares-Gil, A. 606.
Cash, L. C. (Rand, F. V., and Cash). 203.
Caspers, A. C. 1908.
Castle, W. E. *521, 1689, 1690, 1691.
Castle, W. E., and W. L. Wachter. 1691.
Cathcart, P. H., (Esty, J. R., and Cathcart). 304.
Cauda, A., and C. Mensio. 740.
Cedergren, G. R. 2015.
Chamberlain, C. J. *83.
Chamberlain, E. B. 1836.
Chambers, H. (Parker, W. H., and Chambers) *400.
Chambers, W. H. 1360.
Chance, H. C. (Elliott, J. S. B., and Chance). 1210.
Chandler, M. E. J. 1848.
Chaney, R. W. 1264.
Chase, A. 341.
Chasset, L. 153, 154, 1757.
Chauveaud, G. 578.
Chauvin, E. 942.
Cheel, E. 342.
Cheeseman, T. F. 2000.
Chenantais, J. E. 1208.
Chermezon, H. (Buchet, S., Chermezon, and F. Evrard). 1261.
Chibnall, A. C., and S. B. Schryver. 1948.
Chifflot, J. 658.
Child, C. M. 302.
Chipp, T. F. 1274.
Choux, P. 1409.
Christian, H. B. *1981.
Christie, A. W. (Cruess, W. V., and Christie). 1180.
Church, A. H. 1849.
Ciamician, G., and C. Ravenna. 1341, 1342, 1361.
Clark, J. 47.
Clark, W. M. *735.
Clark, W. M. (Zoller, H. F., and Clark). 275.
Clarke, S. R. 1148.
Clausen, R. E. (Setchell, W. A., T. H. Goodspeed, and Clausen). 1085.
Clausen, R. E., and T. H. Goodspeed. 1692.
Claussen, P. *522, *523, *1041.
Clayton, W. *850.
Cleghorn, H. 1387.
Coburn, L. H. 481.
Cockayne, A. H. 1275.
Cockayne, L. 882, 883.
Colani, M. 637, 638, 639, 640.
Colin, M. H. 1356.
Colizza, C. 675.
Collett, R. W. (Williams, C. B., W. F. Pate, E. C. Blair, and Collett). 410.
Collins, J. L. 1042, 1693, 1694.
Conceição, J. 420.
Conrad, W. 584.
Cook, I. W., H. Schmitz, and L. A. Grant. 507.
Cook, M. (Kendall, A. I., Cook, and M. Ryan). 1257.
Cook, M. T. *676, *1291, *1594, *1601.

Cook, O. F. 524, 525.
Cook, R. C. (Cook, O. F., and Cook). 525.
Coolidge, P. T. *1618.
Coons, G. H., and R. Nelson. *211.
Cooper, J. R. 155.
Copeland, E. B. *149, *551.
Coppa, A. 1982.
Corbould, M. K. 884.
Correia Mendes, F. C. 1465.
Correns, C. 82, *111.
Costantin, J. 1188.
Costerus, J. C. 1189.
Cottrell, K. W. 2054.
Coulter, M. C. *526, *1043.
Coupin, H. 585, 586, 587, 588, 589, 590.
Couturier, H. (Lumière, A., and Couturier). 310.
Coville, F. V. *777, 1695.
Cowles, H. C. 971.
Cowperwaite, W. T. *1149.
Crahay, N. I. *1619, 1620.
Craig, W. T. (Love, H. H., and Craig). 1731.
Cratty, R. I. 980.
Crawford, R. F. *190.
Crespo, U. 1758.
Crooks, J. T. J. 885.
Cross, W. E. 1306, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473.
Crouzel, E. 314.
Crow, J. W. 433.
Crowell, S. W. 1150.
Cruess, W. V. 558.
Cruess, W. V., and A. W. Christie. 1180.
Cryer, J. *803.
Cumming, M. 26.
Cunningham, C. C. 1044.
Cunningham, J. C. 852.
Cunningham, M. P. *1151.
Cutler, D. W. 792.
Cutler, G. H. 4.
Cutting, E. M. 1822, 2016.
Czaja, A. T. *83, *1045.
Czapek, F. 1933.

D., C. 253, *741, *742.
D., H. D. 1152.
Dacy, G. H. 1972.
Damon, S. C. 389.
Damon, S. C. (Hartwell, B. L., and Damon). 394, 573.
Dana, B. F. 1877.
Dangeard, P. 445.
Danguy, P. 1410, 1411.
Daniel, L. 1696.
Daniels, A. S. (Schmitz, H., and Daniels). 509.
Danser, B. H. 820.
Darlington, H. T. 482.
Darrow, G. M. 1046.
Davidson, J. D. 508.
Davies, D. 641.
Davies, E. C. 723.
Davis, D. J. 268.
Davis, H. P. 1697.
Davis, K. B. (Fernald, M. R., M. H. S. Hayes, and A. Dawley). 1049.
Davis, W. A. 315.
Davis, W. H. 1878.
Davy de Virville, A. 981.
Davy de Virville, A., and R. Douin. 603.
Dawkins, C. G. E. 48.
Dawley, A. (Fernald, M. R., M. H. S. Hayes, and Dawley). 1049.
Deam, C. C. 1650, 2003.
Deane, W. (Knowlton, C. H., and Deane). 327.
Dearing, C. 527.
Decary. 2010.
Delaval. (Bettinger, and Delaval). *1359.
Denham, H. J. 181.
Denis, M. 579.
Denny, M. (Payne, F., and Denny). 1734.
Dental, J. B. 1776.
Dernby, K. G., and J. Blanc. 1962.
Deshmukh, G. B. 1184.
Detlefsen, J. A. 1698.
Detwiler, S. B. 1307.
Dezani, S. 758.
Dickson, B. T. 1292.
Dickson, J. G. *191.
Dickson, J. G., H. Johann, and G. Wineland. *677.
Dixon, H. N. 1837.
Doblas, J. H. 1474.
*Dodge, C. W. (Duggar, B. M., and Dodge). *1946.
Doidge, E. M. 1857.
Domingo, M. G. 1795.
Donk, P. J. 1252.
Doolittle, S. P. *192, *193.
Dorsey, M. J. 84, *1759.
Douglass, A. E. 952.
Douin, C. 1838.
Douin, R. 604.
Douin, R. (Davy de Virville, A., and Douin). 603.
Dowling, J. J. 768.
Downing, A. J. 1777.
Draghetti, A. 1963.
Dragoiu, J. (Vles, F., and Dragoiu). 458.
Dragoiu, J., and F. Vles. 446.
Drechsler, C. *185.
Drion, R. 1621, 1622.
Druce, G. C. *390, *559, *642, *804, *805, *806, *821, *822, *823, *824 *1388, *2001, *2017.
Druce, G. C. (Hayward, I. M., and Druce). *1394, 2004.
Ducomet, V. 659, 886.
Duddleston, B. H., and G. N. Hoffer. *230.
Dudgeon, W. *447, 468.
DuFour, L. 421.
Duggar, B. M. 1335, 1343.
Duggar, B. M., and C. W. Dodge. *1946.
Duley, F. L., and M. F. Miller. 316.
Dunbar, J. 1153.
Dunn, L. C. 1699.
Dupont, G. 269.
Durham, H. E. 1548.
Durst, C. E. *560.
Dusén, P., and F. W. Neger. 1823.
Dutcher, R. A., H. M. Harshaw, and J. S. Hall. 1934.
Duthie, J. F. *343.
Duvernoy, A., and R. Maire. 1209.
Dykes, W. R. 85, 1047.

Eames E. A. 2018.
Earle, F. S. 1549.
East, E. M., and D. F. Jones. 1048.
Eaton, S. V. *1759, *1921.
Eaton, S. V. (Appleman, C. O., and Eaton). 303.
Eberts. 1623.
Eckbo, N. B. 1624.
Eddy, W. H. 1920.
Eddy, W. H., H. R. Heft, H. C. Stevenson, and R. Johnson. 1935.
Edgerton, C. W. 1326.
Edgerton, C. W., and C. C. Moreland. 1293.
Edgerton, C. W., and G. L. Tiebout. 1308.
Edwardes, V. P. (Kress, O., S. D. Wells, and Edwardes). 1017.
Edwards, W. M. O. 1309.
Edwards, W. N. 643, 644, *645.
Eeden, F. W. van. (Kops, J., van Eeden, and L. Vuyck). *1389.
Egan, W. C. 1154.
Eggerth, A. H. 1922.
Eichwald, E., and A. Fodor. 253.
Eide, O. K. (Thjotta, T., and Eide). 1091.
Elderton, E. M. 1049.
Elderton, E. M. (Rowan, W., E. Wolff, P. L. Sulman, K. Pearson, E. Isaacs, Elderton, and M. Tildesley). 121.
Eldredge, A. G. 1155.
Ellenwood, C. W. 1105.
Elliott, J. A. *212.
Elliott, J. S. B., and H. C. Chance. 1210.
Elliott, W. T. 631.
Ellison, F. O'B. (Waller, A. D., Mrs. A. D. Waller, Ellison, and T. B. Farmer). 750.
Elveden. 1369.
Emerson, R. A. 528.
Endres, M. 1013.
Enfer, V. 156.
Ereky, K. 769.
Erwin, A. T. 705.
Erwin, A. T. (Gilman, J. C., and Erwin). *231.
Espinosa, L. 1475.
Esty, J. R. 1253.
Esty, J. R., and P. H. Cathcart. 304.
Euler, H., and P. Lindner. *759.
Euler, K. 1700.
Evans, A. H. *1412.
Evans, J. A. 561.
Everest, A. E., and A. J. Hall. 1936.
Evrard, F. (Buchet, S., H. Chermezon, and Evrard). 1261.
Eyster, L. A. 1701.
Eyster, W. H. 86, 1702.

Fagan, F. N. 562.
Fairchild, D. 529.
Fankhauser. 1625.
Fantini, N. *1760.
Farmer, T. B. (Waller, A. D., Mrs. A. D. Waller, F. O'B. Ellison, and Farmer). 750.
Farnham, M. E. (Blakeslee, A. F., J. Belling, and Farnham). *1043.
Farnsworth, W. W. 563.
Farrer, R. *559.
Farrington, E. I. *1156, *1157, *1158.
Farwell, O. A. 2019.
Fassett, N. C. 344, 345.
Fawcett, G. L. 1476, 1477, 1858, 1859, 1879.
Fawcett, H. S. 199, 305.
Fawcett, W. 1550.
Fawcett, W., and A. B. Rendle. 346, 2020.
Feldman, W. M. *542.
Ferdinandsen, C. 953, 954.
Ferdinandsen, C., and Ø. Winge. 1211.
Fernald, M. L. 347, 348, 1050.
Fernald, M. L. (Osterhout, W. J. V., R. Thaxter, and Fernald). 934.
Fernald, M. L., and H. St. John. 349.
Fernald, M. L., and C. A. Weatherby. 350.
Fernald, M. R., M. H. S. Hayes, and A. Dawley. 1049.
Fernow, K. (Blodgett, F. M., and Fernow). *704.
Ferreira, E. I. 1478.
Ferry, R. M. (Adolph, E. F., and Ferry). 1957.
Feustel, H. 1824.
Fick, I. A. R. 249.
Finckh, H. E. 483.
Fink, B. 1551.
Fisher, D. F. 1310.
Fisher, R. A. 1370.
Fitch, C. L. 580.
Fitting, H. 770.
Fitz, L. A. 5.
Fitzpatrick, T. J. 484.
Fleischmann, R. 1051.
Flippance, F. 1106.
Fodor, A. (Eichwald, E., and Fodor). 253.
Foëx, E. 660.
Folkstad, C. W. (Newcomb, E. L., C. H. Rogers, and Folkstad). 1915.
Fontanel, P. 2002.
Forbes, A. W. 1052.
Fortún, G. M. 925.
Fortún, G. M., and S. C. Bruner. 1286.
Fowler, R. A. 49.
Franck, W. J. 6.
Fraser, W. P., and D. L. Bailey. 1282.
Frateur, J. L. 87.
Frazer, C. G. 743, 782.
Frazier, W. C. (Fred, E. B., W. H. Wright, and Frazier). 1372.
Frear, W. 1993.
Freckmann, W. 1703.
Fred, E. B. 1371.
Fred, E. B., W. H. Wright, and W. C. Frazier. 1372.
Freundlich, H. 254, 744.
Friederichs, K. *1904.
Frierson, L. S. 887.
Fritch, F. E., and E. J. Salisbury. 32.
Frömbling, C. 1626.
Fromme, F. D. 1860.

Fromme, F. D., and S. A. Wingard. 194, *706.
Fron, and Lasnier. 1212.
Frost, J. F., and G. N. Hoffer. *195.
Fruwirth, C. 88.
Frye, T. C. 972.
Fuller, G. D. 973.
Fulmer, E. I. 783
Funkquist, H. 89.
Fyson, P. F. *617, *646, *1983, *1984.

G., R.R. *244.
Gadeceau, E. *1778.
Gager, C. S. 1077, 1964.
Gagnepain, F. 581.
Gajón, C. 1761, 1779.
Galzin, A. (Bourdot, H., and Galzin). 1206.
Gamble, J. S. 1413.
Garber, R. J. (Hayes, H. K., and Garber). 944, 1714.
Gard, M. 678.
Gardner, F. D. 1994.
Gardner, H. A. 1357.
Gardner, M. W., and J. B. Kendrick. *679, 1880, 1881.
Gardner, V. R. 564.
Gasser, G. W. 1479, 1480.
Gassner, G. 1704.
Gates, R. R. *447, *1705.
Gaumé, J. *1389.
Gay, J. 825.
Gayer, K. 1014.
Gaylord, F. C. 888.
Geilmann, W. (Seelhorst, C. von, Geilmann, and H. Hubenthal). 1987.
Geilmann, W., and A. van Hauten. 1985.
Gennys, R. H. 889.
Georgeson, C. C. 2055, 2056.
Georgeson, C. C., and C. H. Benson. 1762.
Gérardin, E. 1552.
Gerlach. 7.
Gerlach. (Bornemann, O. Lemmermann, Gerlach, and F. Riedel). 1459.
Gérome, J. 1553.
Gerretsen, F. C. 680, 1344.
Geschwind. 1015.
Gibbons, M. (Little, C. C., and Gibbons). 104.
Gibson, H. *1159, 1185.
Giddings, N. J. 1895.
Gile, P. L., and J. O. Carrero. 1336.
Gill, W. 50.
Gillett, K. 1160.
Gilman, J. C. *213.
Gilman, J. C. (Melhus, L. E., Gilman, and J. B. Kendrick). 712.
Gilman, J. C., and A. T. Erwin. *231.
Gilmore, J. C. (Johnson, T., and Gilmore). 1267, 1268.
Ginzberger, A. 485.
Girola, C. D. *890, 1481, 1482, 1483, 1484, 1763, 1909.
Girón, E. G. 1485.
Giung, N. T. 2021.
Gleason, H. A. *943, 2003.
Gleisburg, W. 1198.
Gloyer, W. O. 214.
Goddard, H. H. 1078.
Godfery, M. J. 351, 2022, 2023.
Godfrey, G. H. (Smith, E. F., and Godfrey). 224.
Goetz, E. 1053.
Goldschmidt, R. *537, 1706, 1707, 1708.
Gonzáles Fragosa, R. 1213.
Good, E. S., L. J. Horlacher, and J. C. Grimes. 891.
Goodrich, E. W. 1709.
Goodspeed, T. H. (Clausen, R. E., and Goodspeed). 1692.
Goodspeed, T. H. (Setchell, W. A., Goodspeed, and R. E. Clausen). 1085.
Goor, E. 1627.
Goossens, M. 2024.
Goris, A., and Vischniac. 250.
Gorman, M. W. 982.
Gortner, R. A. (Harris, J. A., Gortner, and J. V. Lawrence). 256, 745.
Gothan, W. 926.
Gothan, W., and K. Nagel. 1265.
Götsche, O., F. Kiörbie, C. Bistrup, and C. W. Ahlefeldt-Laurvig. 51.
Gouaux, C. B. 892, 1311.
Goulding, E. *390.
Gourley, J. H., and G. T. Nightingale. 1107.
Gowen, J. W. 90, 1710.
Gowen, J. W. (Pearl, R., Gowen, and J. R. Miner). 113.
Granel, J. 1486.
Grant, L. A. (Cook, I. W., H. Schmitz, and Grant). 507.
Grantham, J. (Bishop, O. F., Grantham, and M. D. Knapp). *1037.
Grantham, J., and M. D. Knapp. *1037, 1054.
Graves, E. W. 486.
Greeley, W. B. *506, 1016.
Green, A. W. 893.
Gregory, E. S. 826.
Grey, E. C., and E. G. Young. 1952.
Greyerz. H. von. 1390.
Grierson, R. *807.
Grieve, J. W. A. 52.
Griffith, J. W. 793.
Griffiths, D. 1161, 1162, *1163.
Griggs, R. F. 955.
Grimes, J. C. (Good, E. S., L. J. Horlacher, and Grimes). 891.
Grisch, A. (Volkart, A., Grisch, and W. Bandi). 917.
Guba, E. F. 1312.
Guenther, F. 1554.
Guillaumin, A. 1414, 1415.
Guilliermond, A. 448, 947, 1214.
Guilliermond, A., and Peju. 1215.
Guinier, P. 91.
Gundersen, A. 1391.
Gupta, S. N. 927.
Güssow, H. T. 681.
Gustafson, C. F. 2025.
Gustafson, F. G. 289.

Gutherz, S. von. 530.
Guthrie, J. D. 1628.

H., T. A. *157.
Haas, P. 724.
Haberlandt, G. *1190.
Hadden, N. G. 1262.
Haecker, V. 92, *512, 1711.
Hagedoorn, A. C. (Hagedoorn, A. L., and Hagedoorn). *1089.
Hagedoorn, A. L., and A. C. Hagedoorn. *1089.
Hagenburger, C. 1164.
Haggard, H. W., and Y. Henderson. 1959.
Haines, H. H. 352, 808, 1416.
Halban. 308.
Hall, A. J. (Everest, A. E., and Hall). 1936.
Hall, I. C. 1254, 1255, 1953, 1954.
Hall, I. C. (Randall, S. B., and Hall). 1956.
Hall, J. S. (Dutcher, R. A., H. M. Harshaw, and Hall). 1934.
Hall, T. D. 1487.
Hallberg, F. (Blatter, E., and Hallberg). 338.
Hallberg, F. (Blatter, E., Hallberg, and C. McCann). 819.
Halle, T. G. 647.
Hamblin, C. O. *232.
Hamilton, A. A. 353, *466.
Hammarsten, H. *279.
Hammatt, R. F. *1629.
Hammonds, O. H. (Alps, H. F., and Hammonds). *949.
Hankinson, T. L. (Moore, B., C. C. Adams, Hankinson, G. P. Burns, and N. Taylor). *985.
Hansen. 8.
Hansen, A. A. 391, 1441.
Hansen, D. 392.
Hansen, R. 9.
Hanson, C. 1596.
Harden, A. 255, *759.
Harlan, H. V., and S. Anthony. 93.
Harlin, R. G. 1055.
Harlow, C. M. (Lindsay, H. A. F., and Harlow). 1646.
Harms, W. 1712.
Harper, R. M. 487.
Harris, J. A., and E. W. Sinnott. 182.
Harris, J. A., R. A. Gortner, and J. V. Lawrence. 256, 745.
Harris, J. A., W. F. Kirkpatrick, A. F. Blakeslee, D. E. Warner, and L. E. Card. 1056.
Harrison, J. W. H. 94, *521.
Harrison, W. H. *1984.
Harshaw, H. M. (Dutcher, R. A., Harshaw, and J. S. Hall). 1934.
Harshberger, J. W. 928.
Hart, E. B., H. Steenbock, and C. A. Hoppert. 1926.
Harter, L. L. (Weimer, J. L., and Harter). 764, 1873, 1874.
Harter, L. L., and J. L. Weimer. 766, 1869.
Harth, E. 1796.
Hartwell, B. L. 393, 1488.
Hartwell, B. L., and S. C. Damon. 394, 573.
Harvey, E. N. *757.
Harvey, L. H. 469.
Harvey, R. B. (Weiss, F., and Harvey). 666.
Hastings, G. T. 470, 1597.
Hatfield, T. D. *1165.
Haunalter, E. 395.
Hauptmann, A. 1713.
Hauten, A. van. (Geilman, W., and van Hauten). 1985.
Haviland, M. D. 95.
Hayata, B. 1392.
Hayes, H. K., and R. J. Garber. 944, 1714.
Hayes, M. H. S. (Fernald, M. R., Hayes, and A. Dawley). 1049.
Hayward, I. M., and G. C. Druce. *1394, 2004.
Headlee, T. J. 1896.
Headley, F. B. (Scofield, C. S., and Headley). 798.
Heede, A. van den. 166.
Heft, H. R. (Eddy, W. H., Heft, H. C. Stevenson, and R. Johnson). 1935.
Hein, S. A. A. 96.
Helm, C. A. 894.
Hemmann. 1630.
Henderson, Y. (Haggard, H. W., and Henderson). 1959.
Hendrickson, A. H. 1057.
Henrard, J. T. 827.
Henrici, M. *756.
Henriot, P. 354.
Henry, A. 1631.
Henry, J. K. 1715.
Heriot, T. H. P. 895.
Hertel, H. 896.
Hertwig. P. *134.
Hertz. 1632.
Hiern, W. P. 2026.
Hieronymus, G. 812.
Hiley, W. E. 53, 215.
Hill, A. V. 747.
Hill, C. L. *2057.
Hill, H. A. 434.
Hilson, G. R 531.
Himmelbaur, W. 682.
Hindle, E. *521.
Hitchcock, A. S. 325, 488, 1393.
Hitchens, A. P. 1965.
Hoag, J. R. (McCall, A. G., and Hoag). 1362.
Hochè, L., and R. Morlot. 1716.
Hodgetts, W. J. 591.
Hoehne, F. C. 1417.
Hoehne, F. C. (Schlechter, R., and Hoehne). 1429.
Hoffer, G. N. (Duddleston, B. H., and Hoffer). *230.
Hoffer, G. N. (Frost, J. F., and Hoffer). *195.
Hoffer, G. N. (Smith, G. M., and Hoffer). *716.
Hofmann, J. V. 974.
Hofmeyr, J. 1825.
Höhnel, F. 618, 619, 620.
Holben, F. J. (White, J. W., and Holben). 1988.
Holloway, J. E. 1826.
Holm, T. 828, 829, 830, 831, 1418, 1419.

Holmberg, O. R. 2005.
Holmes, E. M. 725, 726, 727.
Holmes, J. S. 1633.
Homans, G. M. 1634.
Honda, H. 1717.
Hood, G. W. *1108.
Hooker, H. D. 776.
Hooper, C. H. *565.
Hoppert, C. A. (Hart, E. B., H. Steenbock, and Hoppert). 1926.
Hopping, A. *35.
Horlacher, L. J. (Good, E. S., Horlacher, and J. C. Grimes). 891.
Horn, D. W. 1327.
Horwood, A. R. *33, *323.
Houseman, P. A. 1910. 1911.
Hovasse, R. 1718.
Howard, G. E. 1937.
Howard, M. S. 54.
Howard, S. H. (Smythies, E. A., and Howard). 65.
Howard, W. L. 435.
Howitt, J. E. 1313.
Hubenthal, H. (Seelhorst, C. von., W. Geilmann, and Hubenthal). 1987.
Hubert, E. E. 1882.
Hudelson, R. R. (Miller, M. F., and Hudelson). 14.
Hudig, J. 317.
Hudson, L. *1166.
Huebner, J. *853.
Huelsen, W. A. 574.
Humbert, E. E. 1328.
Humphrey, C. J. (Kress, O., and Humphrey). 1314.
Humphrey, C. J. (Kress, O., Humphrey, and C. A. Richards). 1315.
Hunt, T. F. 216.
Hutchinson, H. B. (Bewley, W. F., and Hutchinson). 1251.
Hutchinson, J. (Phillips, E. P., and Hutchinson). 365.
Hutchison, C. B. 1719.
Huxley, J. S. 532.

Iglesias, R. M. 1764.
Iniguez, I. F. 1765.
Inman, O. L. 290.
Ireland, A. *1096.
Irwin, M. *291.
Isaacs, E. (Rowan, W., E. Wolff, P. L. Sulman, K. Pearson, Isaacs, E. M. Elderton, and M. Tildesley). 121.
Ise, J. 43.
Itano, A., and J. Neill. 292.

J., J. 592.
Jackson, B. D., and S. Moore. 1555.
Jackson, H. H. T. 97.
Jackson, H. S. (Mains, E. B., and Jackson). *667.
Jackson, H. S., and E. B. Mains. *200.
Jacob, J. 1058, 1556, 1557.
Jacobsen, J. P., and M. Knudsen. *1366.
Jahandiez, E. 158, 1420.
Jameson, F. W. 1635.
Janchen, E. 683, 684.
Janet, C. 593.
Jansen, P. 605.
Jansen, P., and W. H. Wachter. 832, 833.
Jassoy, A. 975.
Jeffrey, E. C. 98.
Jenkins, J. M., (Tisdale, W. H., and Jenkins). *698.
Jenks, A. R. *566.
Jennings, H. S. 533.
Jennings, O. E. 606.
Jepson, W. L. *834.
Jessen, K. 1266.
Jimenez, F. W. 1766.
Johann, H. (Dickson, J. G., Johann, and G. Wineland). *677.
Johnson, A. G., and R. W. Luekel. *685.
Johnson. A. M. *36.
Johnson, E. 998.
Johnson, J. *245.
Johnson, R. (Eddy, W. H., H. R. Heft, H. C. Stevenson, and Johnson). 1935.
Johnson, T., and J. G. Gilmore. 1267, 1268.
Johnston, R. B. 1167.
Johnstone, R. B. 1216.
Joly, J. 1598.
Jones, D. F. (East, E. M., and Jones.) 1048.
Jones, D. H. 1256.
Jones, H. A. 773.
Jones, L. R. (Walker, J. C., and Jones). *205.
Jones, L. R., and M. M. Williamson. *217.
Jones, L. R., J. C. Walker, and W. B. Tisdale. 99.
Jones, O. 55.
Jones, S. V. H. 1059.
Jones, W. N., and M. C. Rayner. *1601.
Jonesco, S. 270.
Jordan, D. S. 100.
Jørstad, I. 1199.
Joshi, P. G. (Burns, W., and Joshi). 1807.
Juritz, C. F. 794.
Just, G. *513.

Kaiser G. B. 854, 983, 2058.
Kanda, M. 1720.
Kappert, H. 534.
Karrer, J. L., and R. W. Webb. 1334.
Kashyap, S R. 582.
Kay, J. 56.
Kayser, E. 276, 277, 779, 1949.
Keeble, F. 567.
Keen, B. A. 795, 796.
Keitt, G. W. *707.
Keller, C. 1558.
Keller, R. 308.
Kellerman, K. F. 956.
Kellogg, R. S. 57.
Kelsey, H. P. 1109.
Kempton, J. 1060.
Kendall, A. I., M. Cook, and M. Ryan. 1257.
Kendrick, J. B. (Gardner, M. W., and Kendrick). *679, 1880, 1881.
Kendrick, J. B. (Melhus, L. E., J. C. Gilman, and Kendrick). 712.
Kenoyer, L. A. 355, *777, 945.

Kephart, L. W. (Pieters, A. J., and Kephart). 401.
Kern, F. D. 1559.
Key, W. *550.
Khadilker, T. R. *356.
Kidd, F. (West, C., G. E. Briggs, and Kidd). 296.
Kidd, W. *546.
Kidston, R., and W. H. Lang. *636, *648.
Kienitz, M. 1636, 1637.
Kilker, C. H. (McCord, C. P., Kilker, and D. K. Minster). 728.
King, L. Y. (Mrs. F. King). *1168, *1780.
Kinman, C. F. 1797.
Kinney, E. J., and G. Roberts. 897.
Kiörbie, F. (Götsche, O., Kiörbie, C. Bistrup, and C. W. Ahlefeldt-Laurvig). 51.
Kirby, R. S. (Stakman, E. C., Kirby, and A. F. Thiel). *188.
Kirchner, O. von. 1560.
Kirkpatrick, W. F. (Harris, J. A., Kirkpatrick, A. F. Blakeslee, D. E. Warner, and L. E. Card). 1056.
Klason, P. 760, 761.
Klatt, B. 101.
Klebahn, H. 621.
Kloos, A. W., Jr. 835.
Knapp, A. W. *157.
Knapp, M. D. (Grantham, J., and Knapp). *1037, 1054.
Knapp, M. D. (Bishop, O. F., J. Grantham, and Knapp). *1037.
Knesebeck, von. 1638.
Knight, H. H. 1245.
Knowlton, C. H. 326.
Knowlton, C. H., and W. Deane. 327.
Knowlton, F. H. *1269, 1270.
Knowlton, F. H. (Lee, W. T., and Knowlton). 654.
Knuchel, H. 2027.
Knudsen, M. (Jacobsen, J. P., and Knudsen). *1366.
Knudsen, M. (Oxner, M., and Knudsen). 1446.
Knunker, A. 1561.
Knuth, R. 1912, 1913.
Kobel, F. 1217.
Köck, G. 708.
Kohler, D. *753, 762.
Kohn-Abrest, É. 1938.
Kopeloff, N., and S. Morse. 1347.
Kops, J., F. W. van Eeden, and L. Vuyck. *1389.
Kordvahr. 1639, 1640.
Korstian, C. F. 1641.
Koser, S. A. 280.
Kottur, G. L. 535.
Kraemer, H. 1939, 1940.
Krausse, A. 1642, 1643, 1644.
Kraybill, H. R. (Rose, D. H., Kraybill, and R. C. Rose). 1975.
Kress, O., and C. J. Humphrey. 1314.
Kress, O., C. J. Humphrey, and C. A. Richards. 1315.
Kress, O., S. D. Wells, and V. P. Edwardes. 1017.
Krieg, H. 1721.
Krogness, C. 58.
Kronfeld, E. M. 1562.
Krout, W. S. 709.
Krüger, P. 102.
Kruhm, A. 1186.
Kubelka, A. 1018.
Kudo, Y. (Miyabe, K., and Kudo). 329.
Kufferath, H. 1348.
Kuhnert. 1489.
Kuiper, K. 1722.
Kulkarni, L. B. (Burns, W., and Kulkarni). 556.

Lacaita C. C. *1563.
Laibach, F. 622.
Laird, J. S. 784, 785.
Lakon, G. 1723.
Lamon, H. M. 1061.
Lance, R. 233, 234.
Lang, W. A. (Kidston, R., and Lang). *636, *648.
Langdon, LaD. M. *1827.
Langer, H. 1967.
Lansdell, K. A. 1828.
Laplace, F. *1781.
Larsen, T., and C. Mariboe. 422.
LaRue, C. D. *246.
Lasnier. (Fron, and Lasnier). 1212.
Latham, R. O. 271.
Laubert, R. 1218.
Laufer, B. *417.
Laughlin, H. H. 1062, 1724.
Laumonnier-Férard, E. 1782.
LaVarre, W. 1645.
La Vaulx, R. de. [See Vaulx, R. de.]
Lawrence, J. V. (Harris, J. A., R. A. Gortner, and Lawrence). 256, 745.
Leach, B. R. 1373.
Leach, B. R., and J. W. Thomas. 1374.
Leclerc, H. 1564, 1565, 1566.
Lecomte, H. 1421, 1422, 1423.
Lee, H. A. 1287.
Lee, H. A., and M. G. Medalla. 1276.
Lee, W. T., and F. H. Knowlton. 654.
Leendertz, C. J. 1883.
Lehmann, E. 10, 1745.
Leitch, I. 1726.
Lemmermann, O. (Bornemann, Lemmermann, Gerlach, and F. Riedel). 1459.
Lemon, J. S. 786.
Lendner, A. 1567.
Lenz. *536, *537, *538, *539.
Lenz, F. 103, 1727.
Le Plastrier, C. M. *1442.
Lerena, C. A. 1914.
Lesage, P. 957, 1839.
Lesourd, F. *568, *1783.
Lesourd, F. (Martinet, H., and Lesourd). 1571.
Lester-Garland, L. V. 836.
Letacq, A. 1784.
Leukel, R. W. (Johnson, A. G., and Leukel). *685.
Levene, P. A. *1950.
Levine, C. O. 1728.
Levy, F. *449, 771.

Lewis, R. D. (Noll, C. F., and Lewis). 1492.
Licent, E. 450.
Liechti, P., and E. Ritter. 898.
Liese, J. 1968.
Lilienfeld, F. 1063.
Lillie, R. S. *309, 1443.
Lindet, M. L. *1349.
Lindman, C. A. M. *823.
Lindner, P. (Euler, H., and Lindner). *759.
Lindsay, H. A. F., and C. M. Harlow. 1646.
Lindstrom, E. W. *526, 1064.
Linton, A. W. 929.
Lipman, J. G. 1995.
Lipman, J. G., and A. W. Blair. 1375.
Lippincott, W. A. 1065, 1729.
Litardière, R. de. 451.
Little, C. C. 540.
Little, C. C., and M. Gibbons. 104.
Little, L. G. 11.
Llewelyn, W. C. 59.
Lloyd, C. G. 1219, 1220, 1221, 1222.
Lobo, B. 423.
Lochhead, W. 235, *1316.
Locy, W. A. 1568.
Loeb, J. 257, 258, 259, 260, 261.
Lomen, G. J. 1066.
Long, B. 984.
Longo, B. 1191.
Lönnberg, E. 105.
Lopéz, C. 1767.
Lopriore, G. 774.
Lotsy, J. P. 1730.
Love, H. H., and W. T. Craig. 1731.
Luisier, A. 1840.
Lumière, A., and H. Couturier. 310.
Lundborg, H. *538.
Lush, J. L. 1067.
Lutman, B. F. *1921.
Luyten, I. 294.
Lyman, G. R. 930.
Lynn, M. J. (Small, J., and Lynn). 301.
Maas, J. G. J. A. *1037, 1068.
McAtee, W. L. 357.
MacBride, E. W. 541, *649.
McCall, A. G., and J. R. Hoag. 1362.
McCallum, A. W. 27.
McCann, C. (Blatter, E., F. Hallberg, and McCann). 819.
McClintock, J. A. *196, *236.
McCord, C. P., C. H. Kilker, and D. K. Minster. 728.
McCubbin, W. A. *186.
McCullock, L. 1294.
McDonald, A. H. E. 899.
MacDougal, D. T. 264, 747, 772, 1351.
MacDougal, D. T., and E. B. Working. 1352.
McFarland, F. T. *201.
McFarland, F. T. (Seymour, E. K., and McFarland). *187.
McGill, J. 900.
MacIntire, W. H. 1996.
MacIntire, W. H. (Mooers, C. A., and MacIntire). 1997.
McKechnie, H. *837, *838.
Mackie, W. W., and F. N. Briggs. *237.
McKinney, H. H. *686.
McMillen, P. R. (Alway, F. J., McMillen, and C. O. Rost). 1978.
McMiller, P. R. 396.
McNaught, J. B. 594.
McRostie, G. P. 106.
McTaggart, A. 1376.
Magalhaes, B. de. 424.
Magaña, J. B. 1808.
Magrini, G. *1444.
Maiden, J. H. 12, 358, 901, 1424, 2028.
Mains, E. B. (Jackson, H. S., and Mains). *200.
Mains, E. B., and H. S. Jackson. *667.
Maire, L. (Bourdot, H., and Maire). *1207.
Maire, R. (Duvernoy, A., and Maire). 1209.
Malone, J. Y. 107.
Maney, T. J. (Bakke, A. L., W. A. Radspinner, and Maney). 152.
Mangenot, G. 595, 596.
Mangin, L. 931.
Mangin, L., and F. Vincens. 1223.
Manson. 1732.
Manuel, H. L. *159, 1317.
March, L. 1069.
Marchand, B. de C. 318.
Marchmay, T. A. 2059.
Mariboe, C. (Larsen, T., and Mariboe). 422.
Marsden-Jones, E. *809.
Marshall, R. E. *1070.
Martell. 1569.
Martin, E. A. 2060.
Martin, J. N. *34, *431, 1600, *1601.
Martin, W. 2009.
Martin, W. H. *710.
Martinet, H. 1570.
Martinet, H., and F. Lesourd. 1571.
Marty, P. (Vaulx, R. de la, and Marty). 656.
Mathews, J. M. *853.
Mathews, J. W. 1785.
Mathieu, E. H. 902, 903.
Matsumura, J. 328.
Mattirolo, O. 932.
Maublanc, M. 1224.
Maurizio, A. 382.
Maxon, W. R. 813, 814, 815.
Mayer, A. (Samec, and Mayer). 274.
Mayor, E. 1225.
Mazarin. 1768.
Medalla, M. G. (Lee, H. A., and Medalla). 1276.
Melchers, L. E. *218, *668.
Melhus, I. E. *687, *711.
Melhus, L. E., J. C. Gilman, and J. B. Kendrick. 712.
Melle, H. A. 1490.
Mellon, R. R. 1071.
Mellon, R. R. (Acree, S. F., Mellon, P. M. Avery, and E. A. Slagle). 311.
Mellon, R. R., S. F. Acree, P. M. Avery, and E. A. Slagle. 262.
Mendiola, N. B. 650.

Mensio, C. (Caudo, A., and Mensio). 740.
Menzel, P. 1850.
Mereschkovsky, C. 1246.
Merkel. 13.
Merrill, E. D. 359, 360.
Merrill, F. A. *436, *437, *438.
Metz, C. W. *110.
Meunissier, A. (Vilmorin, J. de., and Meunissier). 1187.
Meunissier, E. *176.
Meylan, C. 1841, 1842.
Mezger, C. 1986.
Micheels, H. 754.
Michel-Durand, E. *797.
Miège, E. *688.
Mieli, A. 1572.
Millard, W. A. 397, 689.
Miller, E. C. 751.
Miller, E. J., and C. S. Robinson. 1377.
Miller, M. F. (Duley, F. L., and Miller). 316.
Miller, M. F., and R. R. Hudelson. 14.
Miller, W. L. 787.
Millet, L. 167.
Millspaugh, C. F. (Britton, N. L., and Millspaugh). *322, *1999.
Millton, E. B. 904.
Milsum, J. N. 1181.
Miner, J. R. (Pearl, R., J. W. Gowen, and Miner). 113.
Minor, J. E. 763.
Minster, D. K. (McCord, C. P., C. H. Kilker, and Minster). 728.
Mirandé, M. 251, 281.
Mirande, R. 1226.
Mitchell, S. B. *1169.
Miuri, M. 1861.
Miyabe, K., and Y. Kudo. 329.
Miyake, C. (Nishikado, Y., and Miyake). 1318.
Mizusawa, I. 1884.
Mogensen, A. (Weaver, J. E., and Mogensen). 963.
Mohr, O. L. *124.
Mohr, O. L., and C. Wriedt. *539.
Moir, W. S. 1277.
Mol, W. E. de. 1072.
Moll, F. 788.
Möller. 1599.
Molliard, M. 306, 690.
Monaco, A. de. 1445.
Monckton, H. W. *489.
Monteith, J. Jr., *202.
Montemartini, L. 1295.
Moodie, R. L. 1271.
Mooers, C. A., and W. H. MacIntire. 1997.
Moonaw, S. B. and C. B. Sherman. *569.
Moore, B[arrington]. 958.
Moore, B[enjamin]. 755.
Moore, B., C. C. Adams, T. L. Hankinson, G. P. Burns, and N. Taylor. *985.
Moore, C. R. 1073.
Moore, S. (Jackson, B. D., and Moore). 1555.
Moore, S. LeM. 2029.
Moral, A. 425.
Moreau, F. 1227.
Moreau, F., and Mme. Moreau. 627.
Moreau, Mme. (Moreau, F., and Mme. Moreau). *627.
Morel, F. 168.
Moreland, C. C. (Edgarton, C. W., and Moreland). 1293.
Morellet, J. (Morellet, L., and Morellet). 651.
Morellet, L., and J. Morellet. 651.
Morettini, A. 661.
Morgan, T. H. 1733.
Morgan, T. H., A. H. Sturtevant, and C. B. Bridges. 108.
Morgulis, S. 1955.
Morlot, R. (Hochè, L., and Morlot). 1716.
Morris, H. E., and D. B. Swingle. *219.
Morris, R. T. *1110.
Morrow, C. A. *1332.
Morse, S. (Kopeloff, N., and Morse). 1347.
Morse, S. F. 905.
Morse, W. J. 906, 933.
Morstatt, H. 439.
Mortimer, A. 1573.
Moss, C. E. *335.
Mottet, S. 169, 170, 1786, 1787.
Moxley, G. L. 628.
Mudge, C. S. (Ayers, S. H., P. Rupp, and Mudge). 1250.
Mueller, M. L. *1647.
Müller. 1648, 1649.
Muller, H. J. 109, *1043.
Muller, H. J., and E. Altenburg. *1043.
Munerati, O. 1353.
Munns, E. N. 60.
Murrill, W. A. *986.
Muscatello, G. (Buscalioni, L., and Muscatello). 1401.
Muszynski, J. 729.
Muttkowski, R. A. 1363.

Nachtsheim. *110.
Naganaski, H. (Saito, K., and Naganaski). *1744.
Nagel, K. (Gothan, W., and Nagel). 1265.
Navarro, B. G. 1491.
Naveau, R. 607.
Nechleba, A. 1019, 1020.
Neger, F. W. (Dusén, P., and Neger). 1823.
Neill, J. (Itano, A., and Neill). 292.
Nelson, J. C. 987, 988, 989, 1650.
Nelson, R. *197.
Nelson, R. (Coons, G. H., and Nelson). 211.
Newcomb, E. L., C. H. Rogers, and C. W. Folkstad. 1915.
Newton, M. 1283.
Neyraut, E. J. 361.
Nicholls, W. D., and F. W. Peck. 398.
Nichols, G. E. 976, 1600.
Nichols, H. J. 293.
Nicholson, W. E. 608, 990.
Nightingale, G. T. (Gourley, J. H., and Nightingale). 1107.
Nishikado, Y., and C. Miyake. 1318.

Niswonger, H. R. 570.
Noack, K. L. *111.
Noll, C. F., and R. D. Lewis. 1492.
Northrop, J. H. 282, 1346.

Oakley, R. A. 1574.
Oakley, R. A., and H. L. Westover. 399.
O'Brien, D. G. (Berry, R. A., and O'Brien). 1679.
Oertzen, von. 1651.
Offner, J. 991.
Ohshima, H. 112.
O'Kane, W. C. 1111.
Okkelberg, P. 1074.
Oliver, G. D. *1652.
Olmsted, F. E. 61.
Onslow, H. *521.
Onslow, M. W. *252, *1332.
Opazo, A. 1788.
Orton, C. R. (Thurston, H. W., Jr., and Orton). 1299.
Orton, C. R. (Weiss, F., and Orton). *198.
Osterhout, W. J. V. 1364.
Osterhout, W. J. V., R. Thaxter, and M. L. Fernald. 934.
Ostwald, W. 254, *741.
Ostwald, W., and P. Wolski. *742.
Oxner, M., and M. Knudsen. 1446.

Palma, S. di. 855.
Pammel, L. H. 1575.
Pantanelli, E. 713, 856, 999, 1288, 1903.
Parde, M. 662.
Parish, E. 1493.
Parish, S. B. 992.
Parisi, R. 1228.
Parker, W. H., and H. Chambers. *400.
Parkin, J. 775.
Parrott, P. J. 1897.
Pate, W. F. (Williams, C. B., Pate, E. C. Blair, and R. W. Collett). 410.
Patouillard, N. 1229, 1230.
Patty, F. A. 272.
Pau, C. 2006.
Paulson, R. 1247, 1248.
Pavillard, J. 597, 598.
Payne, F., and M. Denny. 1734.
Peachey, G. C. 1576.
Peacock, B. L. DeG. (Peacock J. C., and Peacock). 1916.
Peacock, J. C., and B. L. DeG. Peacock. 1916.
Pearl, R. 114, 115, 1735.
Pearl, R., J. W. Gowen, and J. R. Miner. 113.
Pearsall, W. H. *1425.
Pearse, A. S. 2061.
Pearson, A. A. 1231.
Pearson, C. E. 116.
Pearson, K. (Rowan, W., E. Wolff, P. L. Sulman, Pearson, E. Isaacs, E. M. Elderton, and M. Tildesley). 121.
Pearson, R. S. 1653.
Pearson, W. H. 609.
Pease, R. N., and H. S. Taylor. 283.
Peck, F. W. (Nicholls, W. D., and Peck). 398.
Peju. (Guilliermond, A., and Peju). 1215.
Pellegrin, F. 1426, 1427.
Pelseneer, P. *142.
Pennell, F. W. 362, 839, 2030, 2031.
Pennington, L. H., W. H. Snell, H. H. York, and P. Spalding. 1319.
Pennington, S., and H. G. Robinson. 1320.
Percival, J. *440.
Petch, C. E. 238.
Petch, T. 330, 1232, 1233.
Peters, R. A. 1927, 1928, 1941, 1974.
Petri, L. 1192.
Petrie, D. 2032.
Petrie, W. M. F. 415.
Petronievics, B. *652.
Petry, E. J. (Scott, W. R. M., and Petry). 503.
Peyronel, B. 623, 1234.
Pézard, A. 1736, 1737.
Pfeiffer, H. 363, 2033.
Phillips, E. P. 364, 471.
Phillips, E. P., and J. Hutchinson. 365.
Phillips, J. C. 1738.
Pieters, A. J., and L. W. Kephart. 401.
Pimental, A. 1809.
Pinelle, J. 171, 1289.
Pinn, A. J. 1739.
Pinoy, P. E. 1075.
Piper, C. V. 366, 907.
Pirotta, R. *935, 1258.
Pitt, F. 1740.
Pittier, H. 2034, 2035.
Plahn, A. 1076.
Platt, E. E. 2062.
Plumb, C. S. 117.
Plummer, J. K. 1998.
Poisson, H. 1428.
Poisson, H. (Caille, O., and Poisson). *1402.
Pole Evans, I. B. *334, 367, 2036.
Politis, J. 452, 453.
Poll, H. *514.
Pomeroy, C. S. 1741.
Pomona. 118.
Poole, R. F. *691.
Popenoe, P. *542, *1077, *1078, *1079.
Popenoe, W. 1080, 1769.
Popp, M. 15.
Porte, W. S. (Pritchard, F. J., and Porte). 663.
Porter, E. E. (Weiser, H. B., and Porter). 265.
Porter, R. H. *239.
Pöschl, V. 744.
Posey, G. B. (Bethel, E., and Posey). *673.
Potier de la Varde, R. 1843, 1844, 1845.
Potonié, R. *1851.
Potter, G. F. 575.
Potter, M. C. 284, 381.
Pottier, J. 610.
Potts, F. A. *454.
Poupion, J. 172, 173.
Povah, A. H. W. *220, 1296.
Powers, E. B. 959.
Prain, D. 1577, 1578.
Pratt, H. E. 1494.
Preiss, F. (Blanck, E., and Preiss). 1980.
Prell, H. 1742.
Presti, N. 1810.
Price, W. A. 714.

Priestley, J. H. 263, 273.
Pringsheim, E. G. 1977.
Pritchard, F. J., and W. S. Porte. 663.
Proschowsky, A. R. 1789.
Prouty, W. F. 1193.
Provasi, T. 1194.
Pryer, R. W. (Walker, W. F., and Pryer). 1973.
Pugsley, H. W. 368, *840, 2037, 2038, 2039.
Puig, J. 1495, 1496, 1811, 1898.
Pujiula, J. 1829.
Putterill, V. A. 1862.
Puvilland, J. *174.
Puxeddu, E., and F. Vodret. 1331.

Quaintance, A. L. 1899.
Quairière, C. J. 1654.
Quanjer, H. M., and J. O. Botjes. 1885.
Quevado, J. M. 1917.
Quin, H. G. 1497.

R., A. B. *1601, *1602.
R., E. *1655.
Rader, F. E. 1498.
Radspinner, W. A. (Bakke, A. L., Radspinner, and T. J. Maney). 152.
Ragionieri, A. 1790.
Rahman, A. 908.
Ramaley, F. 472, 473.
Ramiréz, R. 1863, 1864, 1886.
Ramsbottom, J. 1235, 1236, *1259.
Rand, F. V., and L. C. Cash. 203.
Randall, S. B., and I. C. Hall. 1956.
Rao, P. S. J. 1872.
Rap, C. W. 221.
Ratzer, W. von. 402.
Ravenna, C. (Ciamician, G., and Ravenna). 1341, 1342, 1361.
Rawes, R. N. *510, 1743.
Rawitscher. *1744.
Rayner, M. C. (Jones, W. N., and Rayner). *1601.
Rea, C. 1237.
Rea, M. W. (Small, J., and Rea). 300.
Read, J. W. (Sure, B., and Read). 1951.
Recknagel, A. B. *1656.
Recknagel, A. B., and J. Bentley, Jr. 43.
Reddy, C. H. *669.
Regnier, M. *756.
Rehder, A. 369, 370, 371.
Reid, G. A. 119.
Reinheimer, H. *122, 1964, 1966.
Reinking, O. A. 1278.
Rendle, A. B. (Fawcett, W., and Rendle). 346, 2020.
Renner, O. *1745.
Renson, C. 1499, 1500.
Richards, B. L. *204, *692.
Richards, C. A. (Kress, O., C. J. Humphrey, and Richards). 1315.
Richthofen, von. 1501, 1502.
Ricôme. *841.
Riddelsdell, H. J. 842.
Riddle, O. 120.
Riedel, F. (Bornemann, O. Lemmermann, Gerlach, and Riedel). 1459.
Rignano, E. *857.
Riker, A. J. 455.
Rindl, M. 1502, 1503, 1657.
Rios, A. G. (Canfield, F. D., and Rios). 881.
Ritter, E. (Liechti, P., and Ritter). 898.
Ritzema Bos, J. 1579, 1865, 1900.
Rivera, V. 693.
Riveros, E. 1770.
Rivett, M. F. *456.
Rivière, G., and G. Bailhache. *1112.
Rivoire, A. 1791.
Robbins, W. W. *222.
Roberts, E. 1081.
Roberts, G. (Kinney, E. J., and Roberts). 897.
Roberts, H. F. 403.
Roberts, J. W. 426, 1284.
Robinson, C. S. (Miller, E. J., and Robinson). 1377.
Robinson, H. G. (Pennington, S., and Robinson). 1320.
Robison, W. L. 909.
Rodríguez, S. 1504.
Roemer, T. 910, *911.
Roessler. 1658.
Rogers, C. H. (Newcomb, E. L., Rogers, and C. W. Folkstad). 1915.
Roig, J. T. *62.
Rolet, A. 175.
Rolfe, R. A. *824.
Rolfs, F. M. 160.
Root, A. I. 16, 17.
Roper, I. M. *1394.
Rosa, J. T., Jr. 778.
Rose, D. H., H. R. Kraybill, and R. C. Rose. 1975.
Rose, J. N. (Britton, N. L., and Rose). 340, 1400.
Rose, M. 1200.
Rose, R. C. (Rose, D. H., H. R. Kraybill, and Rose). 1975.
Rosen, H. R. *694.
Rossi, G. de. 624.
Rost, C. O. (Alway, F. J., P. R. McMillen, and Rost). 1978.
Roster, G. 1580.
Roth, E. 382.
Rowan, W., E. Wolff, P. L. Sulman, K. Pearson, E. Isaacs, E. M. Elderton, and M. Tildesley. 121.
Ruby, M. J. 1505.
Rudkin, S. 18.
Rümker. 404.
Ruml, B. (See Fernald, M. R., M. H. S. Hayes, and A. Dawley). 1049.
Rupp, P. (Ayers, S. H., Rupp, and C. S. Mudge). 1250.
Russell, E. J. 1581.
Russell, W. 474.
Ryan, H. 2063.
Ryan, M. (Kendall, A. I., M. Cook, and Ryan). 1257.

S., J. *1976.
Saccardo, P. A. *1238, 1239.

Saez, D. 1771.
Safford, W. E. 543, 1082, 2040.
St. John, H. (Fernald, M. L., and St. John). 349.
Saito, K., and H. Naganaski. *1744.
Sakurai, M. 1297.
Salaman, R. N. *405.
Salisbury, E. J. *122, *331.
Salisbury, E. J. (Fritch, F. E., and Salisbury). 32.
Salmon, C. E. 2041.
Salmon, E. S. 695.
Salt, H. 63, 64.
Samaan, K. 730.
Samec, and A. Mayer. 274.
Sampaio, A. J. de. 427.
Samuelsson, G. 993.
Sanchez, N. 1798.
Sanders, G. E. *1321.
Sando, C. E., and H. H. Bartlett. 1942.
Sandwith, N. Y. 332,
Sarabia, G. 1772, 1773.
Sargent, C. S. 372.
Sargent, O. H. 843.
Sartory, A., and P. Bailly. 307.
Saunders, C. E. 19.
Saunders, E. R. 1746.
Sauvageau, C. 1000, 1201.
Savelli, R. 1083, 1747.
Sayre, L. E. 406.
Scasso, J. M. 1506.
Schade, H. *748.
Schaeffer, A. A. *733.
Schaffnit, E. 715.
Schipper, W. W. *2064.
Schlechter, R. 490.
Schlechter, R., and F. C. Hoehne. 1429.
Schmidt, E. W. 1378.
Schmidt, J. 1748.
Schmitt, C. *441, *442.
Schmitz, H. (Cook, I. W., Schmitz, and L. A. Grant). 507.
Schmitz, H., and A. S. Daniels. 509.
Schnaase. 1659.
Schoevers, T. A. C. 1866.
Schopmeyer, C. H. *443.
Schrader, F. 123.
Schröder, B. 1202.
Schröder, H. 1660.
Schroeder. 544.
Schryver, S. B. (Chibnall, A. C., and Schryver). 1948.
Schubert. 1507.
Schubert, J. 1661.
Schuchert, C. 653.
Schultz, E. F. 1508, 1509, 1510, 1887.
Schultz, E. S. 1888.
Schulz, A. 1511.
Schürhoff, P. N. 1084.
Schwappach. 1662.
Schwappach, A. 946.
Schweizer, K. *1350, *1365.
Scofield, C. S., and F. B. Headley. 798.
Scott, D. H. *633, *655.
Scott, L. B. 1113.
Scott, W. R. M., and E. J. Petry. 503.
Scully, R. W. *806.
Sears, P. B. 1195.
Secrest, E. 1021.
Sedgwick, L. J. 844.
Seelen, von. 1663.
Seelhorst, C. von., W. Geilmann, and H. Hubenthal. 1987.
Seidell, A. 312.
Seiler, J. *124, 544.
Selby, A. D., and R. C. Thomas. 1298.
Sell, M. T. (Steenbock, H., Sell, and P. W. Boutwell). 1943.
Sell, M. T. (Steenbock, H., Sell, and M. Buell). 1944.
Semichon, L. 1512.
Sen-Gupta, N. N. 1379.
Setchell, W. A. 977, 994.
Setchell, W. A., T. H. Goodspeed, and R. E. Clausen. 1085.
Severin, G. 1664, 1665, 1666.
Severin, H. H. P. 1322.
Seward, A. C. *645, 654, *655.
Seymour, E. K., and F. T. McFarland. *187.
Shamel, A. D. 125, 126, 127, 1086.
Sharp, L. T. (Waynick, D. D., and Sharp). *797.
Sharp, L. W. *457.
Shaw, W. R. 599.
Shepherd, A. N. 20.
Shepherd, J. F. *1022.
Sherman, C. B. (Moomaw, S. B., and Sherman). *569.
Sherwin, M. E. 1513.
Shoolbred, W. A. *324.
Showalter, A. M. 1830.
Shreve, E. B. *960.
Shreve, F. 475.
Shull, C. A. 978.
Siebert, A. 1582.
Siecke, E. O., and L. Wyman. 1667.
Siegmund, G. 407.
Silveira, R. S. 1514.
Sim, T. R. 1668, 1669.
Simmonds, J. H. 1023.
Simonds, O. G. 1792.
Sinnott, E. W. (Harris, J. A., and Sinnott). 182.
Skinner, J. J. 319.
Slagg, C. M. *223.
Slagle, E. A. (Acree, S. F., R. R. Mellon, P. M. Avery, and Slagle). 311.
Slagle, E. A. (Mellon, R. R., S. F. Acree, P. M. Avery, and Slagle). 262.
Slogteren, E. van. 1901.
Slosson, E. E. 380.
Small, J. 298, 299, *642, *1595, *1602.
Small, J., and M. J. Lynn. 301.
Small, J., and M. W. Rea. 300.
Small, J. K. 491, 492.
Smiley, E. M. (Artschwager, E., and Smiley). 1438.
Smith, A. L. *629.
Smith, E. F. *244, 664.
Smith, E. F., and G. H. Godfrey. 224.
Smith, G. M., and G. N. Hoffer. *716.
Smith, R. S. 1380.

Smythies, E. A., and S. H. Howard. 65.
Snell, W. H. 66, 1240.
Snell, W. H. (Pennington, L. H., Snell, H. H. York, and P. Spalding). 1319.
Snodgrass, M. D. 1515, 1516.
Soest, J. L. 845.
Söhngen, N. L. (Verkade, P. E. and Söhngen). 1945.
Solis, O. 1583.
Sosman, R. B. *1603.
Souèges, R. 183.
South, F. W. 1279, 1867.
Spalding, P. (Pennington, L. H., W. H. Snell, H. H. York, and Spalding). 1319.
Spierenburg, D. 696.
Sprague, T. A. *810.
Sprecher, A. 749.
Staf, H. 67, *68.
Stakman, E. C., R. S. Kirby, and A. F. Thiel. *188.
Standley, P. C. 1087, 1430.
Stark, L. C. 1114.
Stark, P. 1969.
Steele, A. 1170.
Steele, F. *1171.
Steenbock, H. (Hart, E. B., Steenbock, and C. A. Hoppert). 1926.
Steenbock, H., M. T. Sell, and P. W. Boutwell. 1943.
Steenbock, H., M. T. Sell, and M. Buell. 1944.
Steil, W. N. *1045.
Steinmann, G. 1272.
Stent, S. M., and H. A. Melle. 1517.
Stephenson, T., and T. A. Stephenson. 373, 2042, 2043, 2044.
Stephenson, T. A. (Stephenson, T., and Stephenson). 373, 2042, 2043, 2044.
Stevens, F. L. 247, *697, *1291.
Stevenson, H. C. (Eddy, W. H., H. R. Heft, Stevenson, and R. Johnson). 1935.
Stevenson, J. A. 1323.
Stiles, E. C. 1172.
Stoa, T. E. 912.
Stoate, T. N. 69.
Stoddard, L. 1079.
Stone, R. E. 1280.
Stout, A. B. 128, 129.
Stout, M., and M. Agar. 164.
Strand, E. *1904.
Sturtevant, A. H. 130, 131, 132, *1705.
Sturtevant, A. H. (Morgan, T. H., Sturtevant, and C. B. Bridges). 108.
Sturtevant, G. 1088.
Suessenguth, K. 1831.
Sulman, P. L. (Rowan, W., E. Wolff, Sulman, K. Pearson, E. Isaacs, E. M. Elderton, and M. Tildesley). 121.
Sundaraman, S. *617.
Sure, B., and J. W. Read. 1951.
Swain, E. H. E. 70.
Swartwout, H. G. 161.
Swingle, D. B. (Morris, H. E., and Swingle). *219.

T., C. 1584.
T., E. N. 460.
T., W. B. *493.
Täckholm, G. *135.
Takimoto, K. 1889.
Tansley, A. G. *1089.
Tate, G. 731.
Taylor, H. S. (Pease, R. N., and Taylor). 283.
Taylor, H. W. 1518, 1519.
Taylor, M. A. 374.
Taylor, N. 494.
Taylor, N. (Moore, B., C. C. Adams, T. L. Hankinson, G. P. Burns, and Taylor). *985.
Teichmann. 1024.
Terby, J. 545.
Teschauer, C. 428.
Tevis, M. 1812.
Thadani, K. I. 133, 1090.
Thatcher, L. E. 913.
Thaxter, R. (Osterhout, W. J. V., Thaxter, and M. L. Fernald). 934.
Theiss, L. E. 1173.
Thériot, I. 611, 612, 1846.
Thiel, A. F. (Stakman, E. C., R. S. Kirby, and Thiell). *188.
Thiessen, A. H. 461.
Thjotta, T., and O. K. Eide. 1091.
Thoday, M. G. 1832.
Thomas, H. H. *495.
Thomas, J. W. (Leach, B. R., and Thomas). 1374.
Thomas, M. D. 1381.
Thomas, P. (Bertrand, G., and Thomas). 255.
Thomas, P. H. 1115, *1116, 1117, *1118, 1119.
Thomas, R. C. (Selby, A. D., and Thomas). 1298.
Thompson, H. C. 576.
Thompson, H. S. 2045.
Thompson, N. F. *670.
Thomson, J. A. *546, *1092.
Thorne, C. E. 914, 915, 916.
Thurston, H. W., Jr., and C. R. Orton. 1299.
Tice, C. 1520.
Tiebout, G. L. (Edgerton, C. W., and Tiebout). 1308.
Tiffany, L. H. 600.
Tildesley, M. (Rowan, W., E. Wolff, P. L. Sulman, K. Pearson, E. Isaacs, E. M. Elderton, and Tildesley). 121.
Tischler, G. *134, *135.
Tisdale, W. B. *226.
Tisdale, W. B. (Jones, L. R., J. C. Walker, and Tisdale). 99.
Tisdale, W. B., and M. M. Williamson. *225.
Tisdale, W. H. 1890.
Tisdale, W. H., and J. M. Jenkins. *698.
Tjebbes, K., and J. C. Th. Uphof. 1358.
Tolaas, A. G. 717.
Tonnelier, A. C. 1521.
Torres, A. *1813, 1814.
Torres, L. G. 1522.
Trachtenberg, H. L. 1093.
Traverso, G. B. 936.

Trelease, S. F. 1337.
Trelease, W. 375, 846.
Truffaut, G., and N. Bezssonoff. 320.
Tschermak. 1025.
Tureson, G. 1870.
Turney, A. G. 28.
Turpin, H. W. 1382.
Turrill, W. B. *496, *497, 2046.

Uphof, J. C. T. 136, 699, *1120, 1121, *1122, 1123, 1174.
Uphof, J. C. T. (Tjebbes, K., and Uphof). 1358.

Valencia, F. V. 1026.
Valleau, W. D. *240, 700, *718.
Vallejo, C. 1774.
Varela, E. 1799.
Vargas, L. M. 1800, 1801.
Varney, B. M. 961, *962.
Vasquez, D. 1523.
Vass, A. F. 1354.
Vaughan, R. E. *241.
Vaulx, R. de la. 1725.
Vaulx, R. de la, and P. Marty. 656.
Vayssière, M. P. 248.
Verhoeven, W. B. L. 1902.
Verkade, P. E. 1345.
Verkade, P. E., and N. L. Söhngen. 1945.
Versluys, M. C. 295.
Vierling, K. 1260.
Vilmorin, J. de. 137.
Vilmorin, J. de., and A. Meunissier. 1187.
Vincens, F. (Mangin, L., and Vincens). 1223.
Vischniac, C. (Goris, A., and Vischniac). 250.
Vles, F. (Dragoiu, J., and Vles). 446.
Vles, F., and J. Dragoiu. 458.
Vodret, F. (Puxeddu, E., and Vodret). 1331.
Voelcker, J. A. 799, 800.
Volkart, A., A. Grisch, and W. Bandi. 917.
Vries, H. de. 547, 548, *1043.
Vuillemin, P. 1241.
Vuyck, L. (Kops, J., F. W. van Eeden, and Vuyck). *1389.

Wachter, W. H. (Jansen, P., and Wachter). 832, 833.
Wachter, W. L. (Castle, W. E., and Wachter). 1691.
Wacker. 21.
Wacker, J. 408.
Wager, H. A. 1833.
Wagner, P. 1524.
Wahl, von. 1891.
Wainio, E. A. 1242, 1249.
Wakefield, E. M. 1300.
Waldron, L. R. 918.
Walker, J. C. *227, *701.
Walker, J. C. (Jones, L. R., Walker, and W. B. Tisdale). 99.
Walker, J. C., and L. R. Jones. *205.
Walker, W. F., and R. W. Pryer. 1973.
Wall, A. 2047.
Waller, A. D. 1923.
Waller, A. D., and Mrs. A. D. Waller, F. O'B. Ellison, and T. B. Farmer. 750.
Waller, Mrs. A. D. (Waller, A. D., Waller, F. O'B. Ellison, and T. B. Farmer). 750.
Waller, A. E. 1001.
Wallis, T. E 732.
Ward, C. D. *459.
Ward, E. N. 1124.
Ward, H. A. 995.
Warner, D. E. (Harris, J. A., W. F. Kirkpatrick, A. F. Blakeslee, Warner, and L. E. Card). 1056.
Warner, H. H. 1670.
Warnstorf, C. 613.
Waterlot, and Decary. 2010.
Watson, J. A. S. 138.
Watson, W. *629, 1585.
Waugh, F. A. 1777.
Waynick, D. D., and L. T. Sharp. *797.
Weatherby, C. A. 376, 498, 1586.
Weatherby, C. A. (Fernald, C. L., and Weatherby). 350.
Weathers, J. 1094.
Weaver, J. E. *1002.
Weaver, J. E., and A. Mogensen. 963.
Weaver, R. B. 71.
Webb, R. W. (Karrer, J. L., and Webb). 1334.
Webber, H. J. 139.
Weber, G. F. *671.
Weimer, J. L. 719.
Weimer, J. L. (Harter, L. L., and Weimer). 766, 1869.
Weimer, J. L., and L. L. Harter. 764, 1873, 1874.
Weir, J. R. 1301, 1302.
Weis, F. *753.
Weis, F., and K. A. Bondorff. 665, 1383.
Weiser, H. B., and E. E. Porter. 265.
Weiss, F., and R. B. Harvey. 666.
Weiss, F., and C. R. Orton. *198.
Weiss, H. 1970.
Weiss, H. B. 625, 964, 965, 1525.
Wellington, R. 140, 1125.
Wells, B. W. 1196, 1834.
Wells, S. D. (Kress, O., Wells, and V. P. Edwardes). 1017.
Wenholz, H. 919.
Wense, H. von der. 1587.
Werner, H. O. 409.
Werth, E. 657.
West, C., G. E. Briggs, and F. Kidd. 296.
Weston, W. H. *206.
Westover, H. L. (Oakley, R. A., and Westover). 399.
Wheldon, J. A. 614.
Wherry, E. T. 966, 967, 968.
White, C. T. 377.
White, J. W. 2007.
White, J. W., and F. J. Holben. 1988.

White, O. E. 141.
White, W. T. 1526.
Whitehead, T. 1243.
Whitney, M. 1989.
Whittet, J. N. 22.
Whymper, R. *552, *1805.
Wiegand, K. M. 378, 2048.
Wiegner, G. 1990.
Wild, H. *1175, *1176.
Wildeman, E. de. 1431, 1432, 1433.
Wilder, L. B. *1177.
Wilding, E. H. 162.
Willard, J. T. 858.
Wille, J. 789.
Williams, C. B., W. F. Pate, E. C. Blair, and R. W. Collett. 411.
Williams, C. O. 321.
Williams, F. N. 2008.
Williams, R. S. 615.
Williams, S. G. 2065.
Williamson, M. M. (Jones, L. R., and Williamson). *217.
Williamson, M. M. (Tisdale, W. B., and Williamson). *225.
Willis, J. C. 499, *500, *1388.
Willstätter, R. 285.
Wilmore, W. W. 1182.
Wilmott, A. J. 2049.
Wilson, B. D. 1991.
Wilson, E. H. 501.
Wilson, M. 1244.
Wineland, G. (Dickson, J. G., H. Johann, and Wineland). *677.
Wingard, S. A. (Fromme, F. D., and Wingard). 194, *706.
Winge, Ø. *526.
Winge, Ø. (Ferdinandsen, C., and Winge). 1211.
Winters, S. R. 969.
Winterstein, H. *710.
Winton, A. L. 1588.
Wister, J. C. 937.
Wittmack, L. 411.
Witzemann, E. J. 765.
Wolff, E. (Rowan, W., Wolff, P. L. Sulman, K. Pearson, E. Isaacs, E. M. Elderton, and M. Tildesley). 121.
Wolk, B. C. van der. 1815, 1960.
Wollenweber, H. W. 189.
Wolley-Dod, A. H. *847.
Wolski, P. (Ostwald, W., and Wolski). *742.
Woodard, J. *1946.
Woodruff, L. L. 1095.
Woods, F. A. 549, *1096.
Woodward, B. B. *142.
Woodward, R. W. 996.
Woolsey, T. S., Jr. *506.
Wooster, L. C. 429.
Working, E. B. (MacDougal, D. T., and Working). 1352.
Worliczek, C. 1027.
Wriedt, C. (Mohr, O. L., and Wriedt). *539.
Wright, A. E. 1924.
Wright, G. 1835.
Wright, R. C. 1971.
Wright, S. 143, 144, 145, 146, 147, *550.
Wright, W. H. (Fred, E. B., Wright, and W. C. Frazier). 1372.
Wyman, L. (Siecke, E. O., and Wyman). 1667.

Yamaguchi, Y. *1036.
York, H. H. (Pennington, L. H., W. H. Snell, York, and P. Spalding). 1319.
Young, E. G. (Grey, E. C., and Young). 1952.
Young, H. C., and C. W. Bennett. *672.
Youngken, H. W. *941, 1918.
Yuncker, T. G. 848, 997, 2066.

Zahn, E. 1589.
Zaunick, R. 1590.
Zavitz, C. A. *29.
Zeininger. 1591.
Zeleny, C. *1043.
Zenari, S. 502.
Ziegler, A. 148.
Zoller, H. F., and W. M. Clark. 275.
Zschake, H. 630.